

**ENERGY SAVINGS
OPPORTUNITY SURVEY
(ESOS)
OF
SCHOFIELD BARRACKS
FAMILY HOUSING
AREAS
A, D, E, F, I, J, K-1**

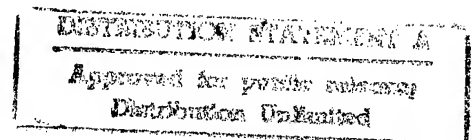
**U.S. ARMY CONTRACT NO. DACA83-89-D-0073
FINAL SUBMITTAL**

VOLUME II

DTIC QUALITY INSPECTED 2

**PREPARED BY:
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2130-E NORTH KING STREET
HONOLULU, HAWAII 96819**

SEPTEMBER 9, 1992



19971017 169



DEPARTMENT OF THE ARMY
CONSTRUCTION ENGINEERING RESEARCH LABORATORIES, CORPS OF ENGINEERS
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Marie Wakefield,
Librarian Engineering

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UNIT TYPE 20-II

Date: 1/9/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 425

Building Type: 20-11

Apartment: _____

No. Bedrooms: 4

Area: D

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 7
2

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: every other other day

Remarks: _____

2.0 ARCHITECTURAL

*Crawl space
of ~ 2' under
house*

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film

Insulation *NONE*

WOOD WALL

Inside Film

Total

U-Factor _____ Area

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film

Insulation

WOOD ROOF

Asphalt Shingles

Inside Film

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 115 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: Not visible pipes
Insulation Thickness:

e. Is Hot Water Circulated? ND

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

could not access
pipes under house

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location Laundry Room
b. Areas Served Entire Unit
c. Manufacturer and Model Hoyt Model FES-1
d. Energy (Oil, Gas, Electric, Coal, Etc.) E
e. Type Heaters & Quantities: ✓
1) Storage
2) Instantaneous
3) Semi-Instantaneous
f. Heater Size and Storage Capacity 66 gal

- g. Heating Capacity 2250 W
 h. Type Controls (Air, Steam, Electric) good
 i. When Installed & Condition good
 j. Heater Temperature Setting _____
 k. Average Water Maintained Temperature _____
 l. Temperature Differential (j) - (k) _____
 m. Is Hot Water Supply Adequate yes
 n. Insulation Thickness None such
 o. Insulation Material _____
 p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

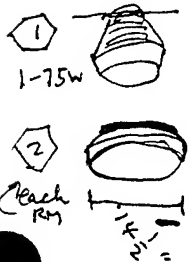
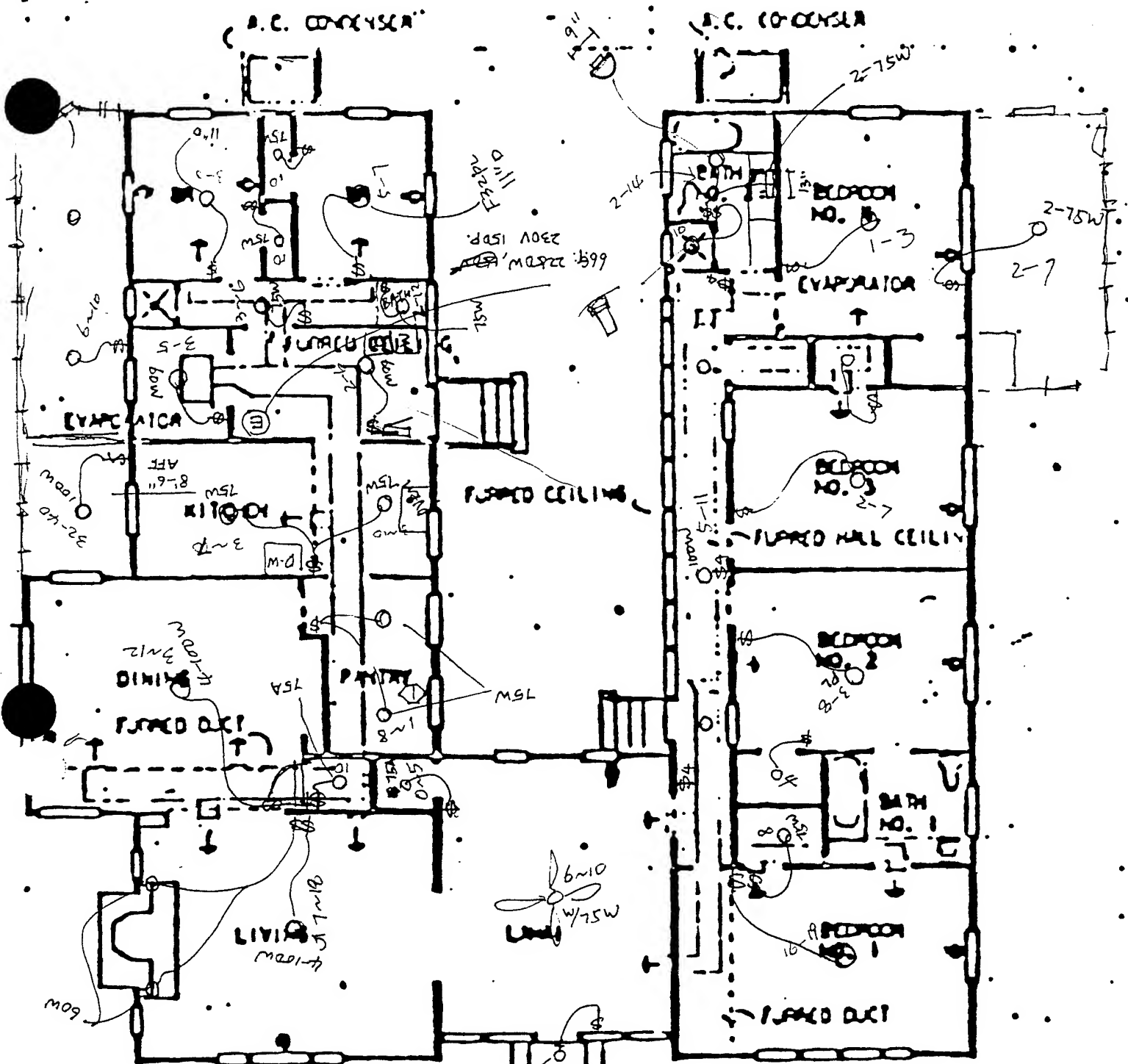
- 1) Mfg/Mdl _____
 2) Galons HW/Wash _____
 3) Booster Heater Mfg/Mdl _____
 4) Heating Source _____
 5) Capacity _____
 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
 2) Setting: Hot _____ Warm _____ Cold _____
 3) Gallons HW/Wash _____
 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
101 Sk	2.2/lps	115°F	right after shower & wash.



425
R

BUILDING NUMBERS
 AREA B 418, 425, 432, 439, 446
 AREA E 510, 525, 532, 539, 546
 SEE SITE PLAN SHEET (B) FOR L.A.
 AREA I 712, 713, 724, 736
 SEE SITE PLAN SHEET (B) FOR LOCATION

Type 20-II

Date: 1/9/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 525

Building Type: 20-II

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 5

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as unit 425

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as unit 425

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Washer Tub Sk	17 l / 10.5	120°F	
Bath No. 1 Tub	5 l / 10.5	122°F	
Shower	12 l / 10.5	115°F	



Building

1
2
3
4
5
6
7

一、二、三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

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712. 713. 734. 735

THE SITE AREA SET AS THE LOCATION

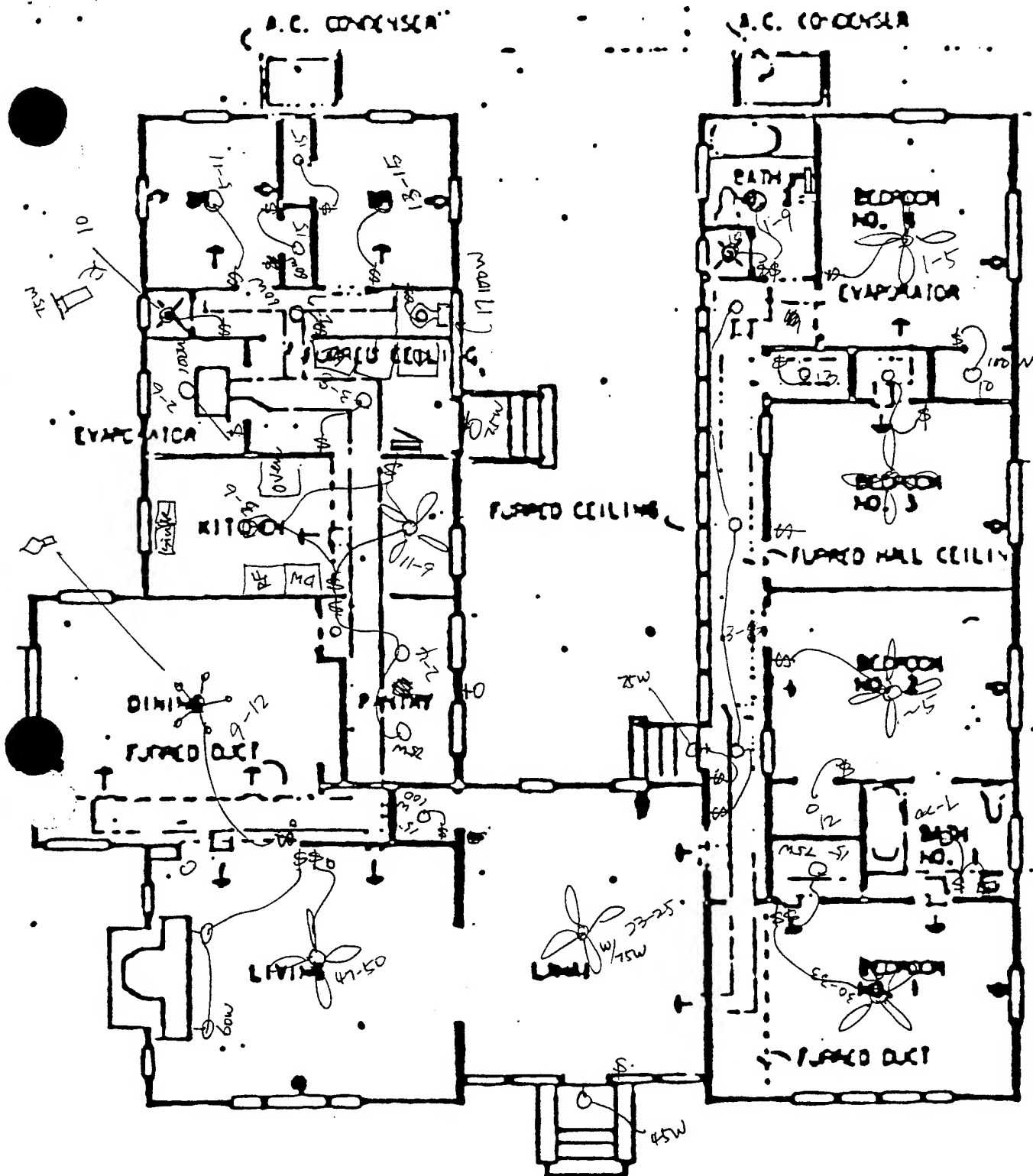
Type 20-II

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MAY 1973

FLOOR PLAN

SECRET



525
R

BUILDING NUMBERS

AREA B 418, 425, 432, 441, 448
 AREA E 510, 525, 532, 542
 SEE SITE PLAN SHEET (B) FOR LA
 AREA I 712, 713, 724, 730
 SEE SITE PLAN SHEET (B) FOR LOCATION

Type 20-II

Date: 1/9/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 701

Building Type: 20-T1

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: 1

Occupied Hours: Empty till 2pm

No. of Occupants: 6

Average No. of Showers/Day: 6

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as unit 425

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

*Same as
Unit 425*

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

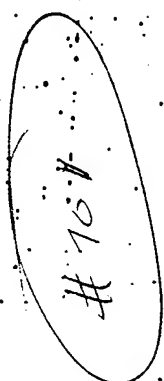
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub	42/10s	119°F	
shower	32/10s	118°F	



Type 20-II

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U. S. Army Medical Division, P:
Corps of Engineers
HQUADU, HANAI

SC-MEDICAL DIVISION

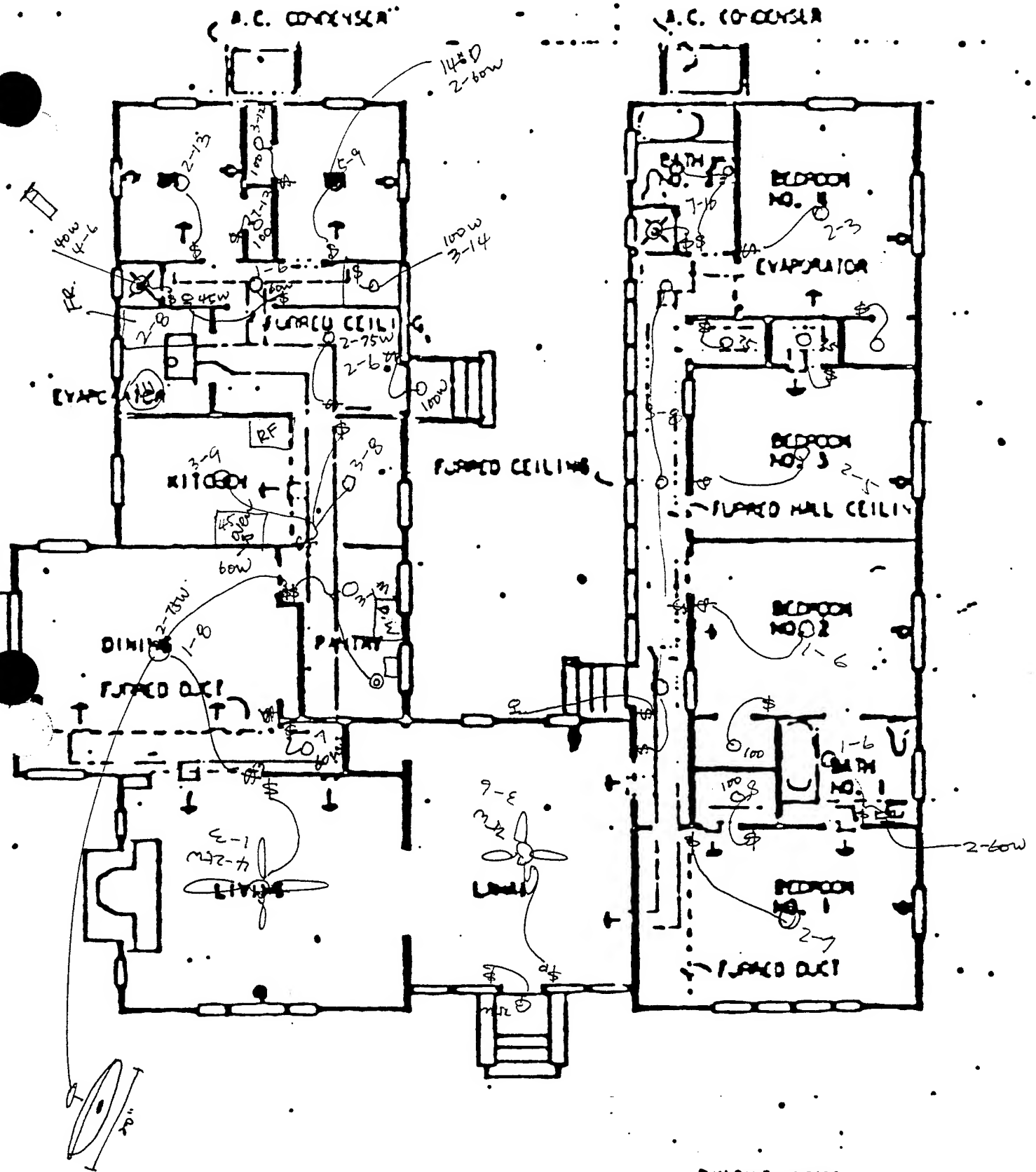
FAMILY HOLDINGS

BUDGETARY DATA FOR AIR CORPS VETERANS' QUARTERS SOCIETY'S FLOOR PLAN & M

NOV 1968

MAY 1973

FLOOR PLAN
SCALE 1/8" = 1'-0"



BUILDING NUMBER

AREA D 418, 425, 426, 427, 428
 AREA E 518, 525, 526, 527

SEE SITE PLAN SHEET (B) FOR LOCATION

AREA I 712, 713, 714, 715

SEE SITE PLAN SHEET (B) FOR LOCATION

Type 20-II

Date: 1/9/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 712

Building Type: 20-11

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 7

Average No. of Showers/Day: 7

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

SAME AS 425

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

same as 425

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

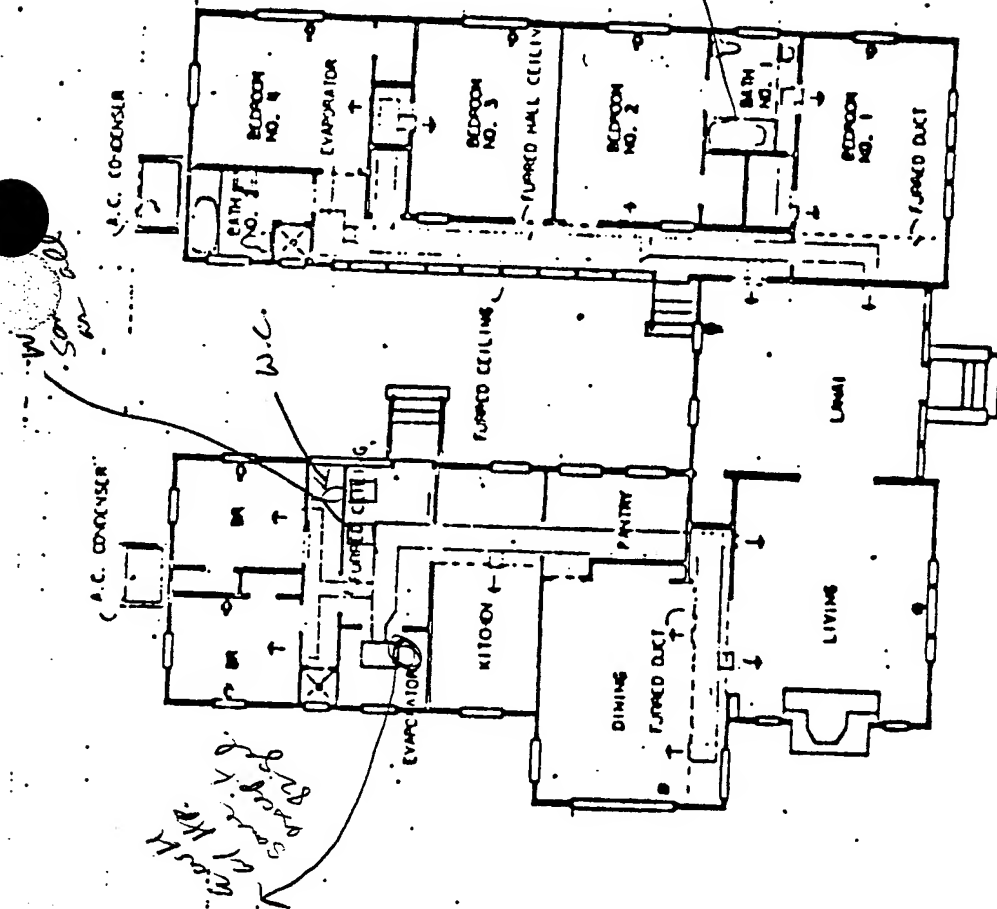
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
laundry tub	4.52 / 105	128°F	

#142-R



FLOOR PLAN
SCALE 1/8" = 1'-0"

BUILDING NUMBERS
AREA B 814, 825, 834, 844, 854
AREA E 510, 520, 530, 540
SEE SITE PLAN SHEET 10 FOR LA
AREA I 712, 713, 724, 734
SEE SITE PLAN SHEET 10 FOR LOCATION

Type 20-II

REVISIONS			
FAMILY HOUSING			
BUDGETARY DATA FOR AIR CONDITIONING			
OFFICERS' QUARTERS SCHEDULE 10			
FLOOR PLAN 10			
SCHEMATIC DRAWINGS			
U. S. ARMY ENGINEER DIVISION, P. 1			
CORPS OF ENGINEERS			
MOBILE, ALABAMA			
DATE	BY	CHKD	APP'D
10-25-54	10-25-54	10-25-54	10-25-54

MAY 1973

UNIT TYPE 20-III

Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 401

Building Type: 20 - 111

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 5

Average No. of Showers/Day: 2 1/2

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

2' crawl space
under house

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Roof-Wood

Asphalt Shingle

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

Central Plant One System per Building
Several Small Systems per Building
Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 130 °F
°F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated? No

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage
- b. Areas Served Entire House
- c. Manufacturer and Model Hout Model FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 82

- g. Heating Capacity 2250 W
h. Type Controls (Air, Steam, Electric) E
i. When Installed & Condition Good
j. Heater Temperature Setting _____
k. Average Water Maintained Temperature _____
l. Temperature Differential (j) - (k) _____
m. Is Hot Water Supply Adequate _____
n. Insulation Thickness _____
o. Insulation Material _____
p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
2) Galons HW/Wash _____
3) Booster Heater Mfg/Mdl _____
4) Heating Source _____
5) Capacity _____
6) Electrical Data _____

b. Clothes Washer

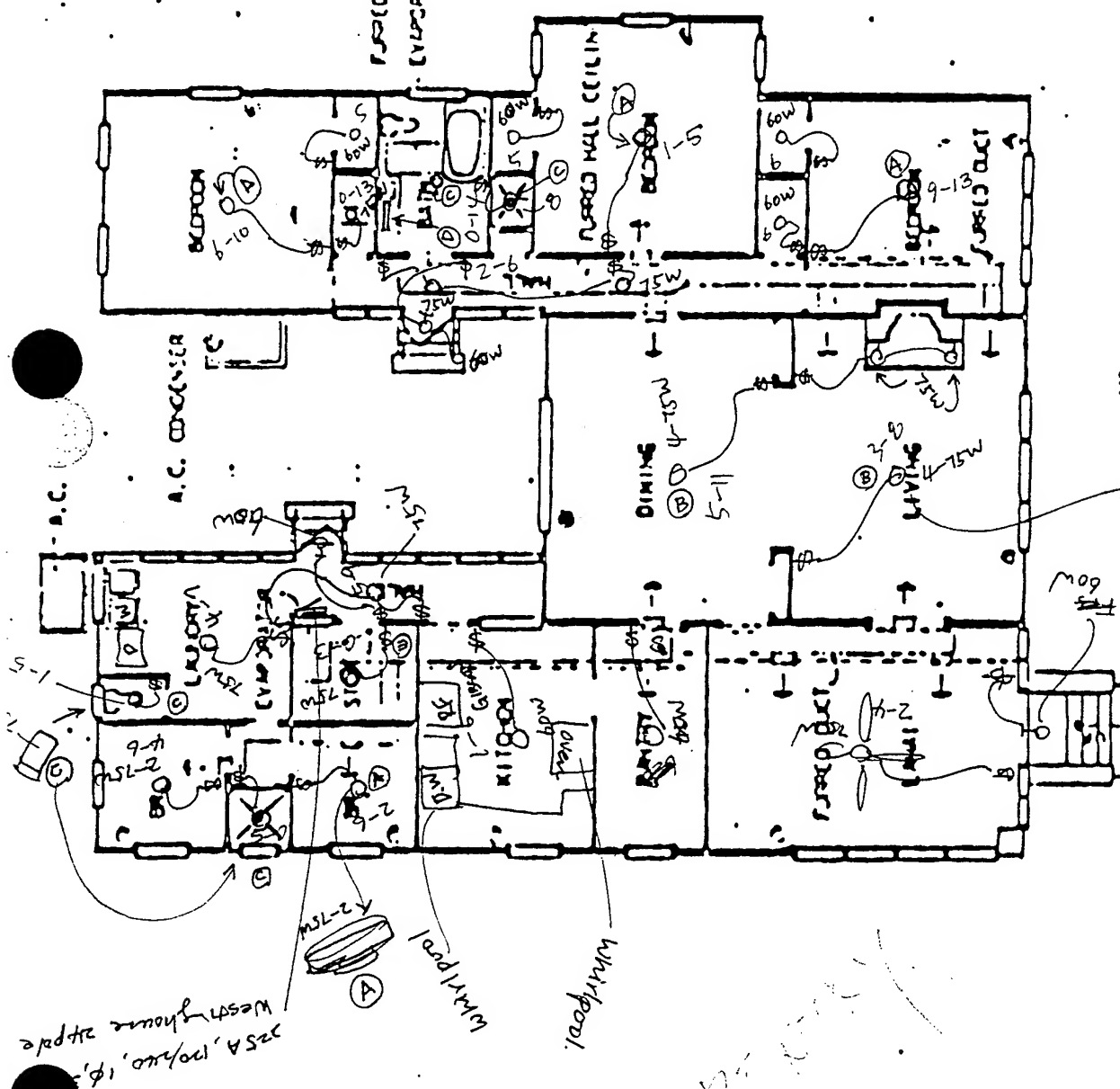
- 1) Mfg/Mdl _____
2) Setting: Hot _____ Warm _____ Cold _____
3) Gallons HW/Wash _____
4) Electrical Data _____

see sketch

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub	4.5 l/10s	128°F	
Hall Shower	2 l/10s	130°F	
Kit. sk	1 l/10s	128°F	
Bath tub	4 l/10s	130°F	
Bathroom Shower	3 l/10s	126°F	

107



Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 415
Building Type: 20-111
Apartment: _____
No. Bedrooms: 3
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: ALL DAY
No. of Occupants: 3
Average No. of Showers/Day: 3
Average No. of Laundry Loads/Week: 3
Average No. of Times Dishwasher Used/Day: 1/week
Remarks: _____

2.0 ARCHITECTURAL

Same as unit 401

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same
as 401

- a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

 Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: None
Insulation Thickness: _____

- e. Is Hot Water Circulated? No

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities: _____
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

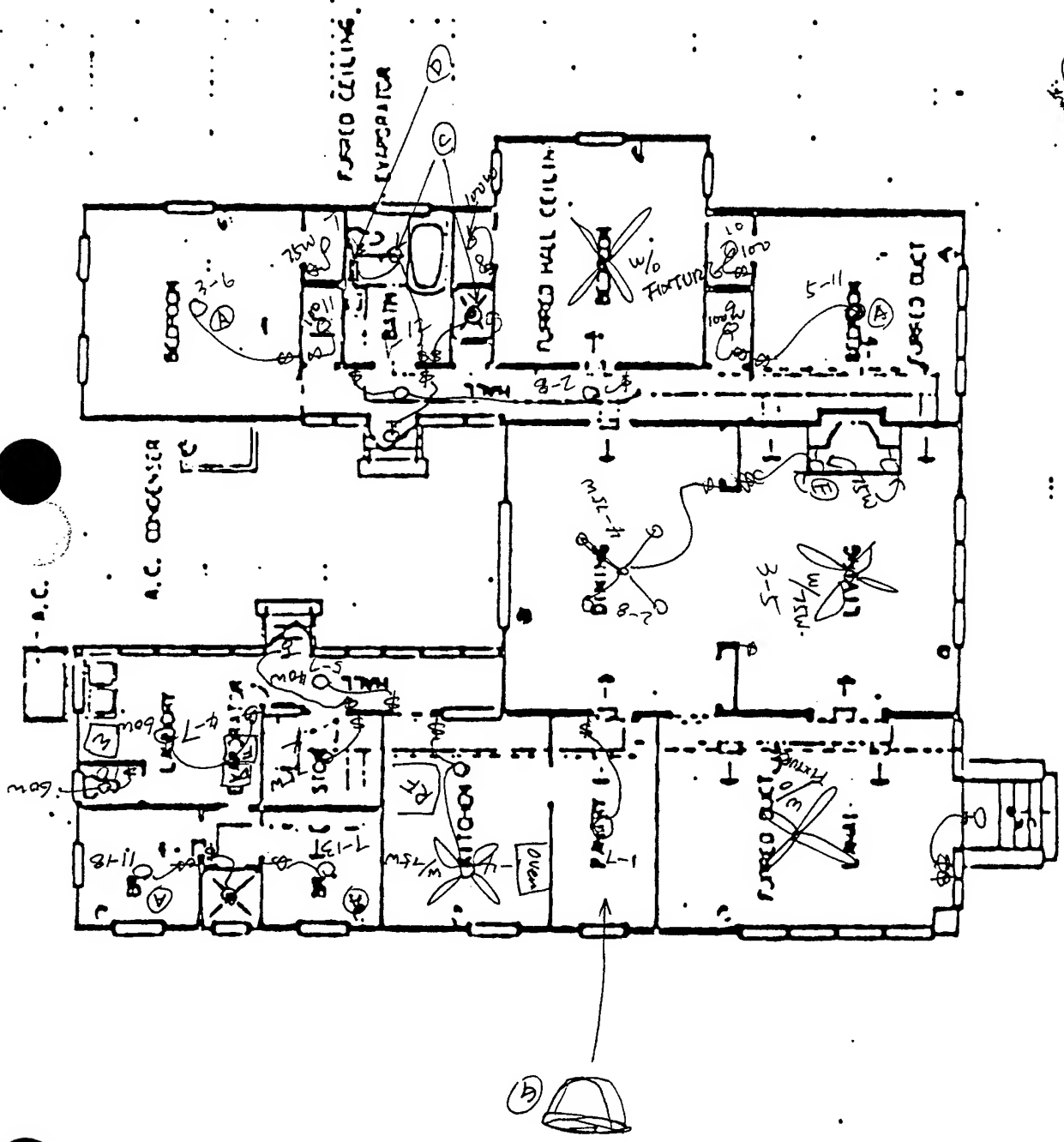
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub	62/105	117°F	
Bath Shower	12/105	118°F	



415

HILL



FLOOR PLAN
SCALE 1/8" = 1'-0"

Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 419

Building Type: 20-111

Apartment:

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all day

No. of Occupants: 2

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 2

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 4.1

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area _____

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

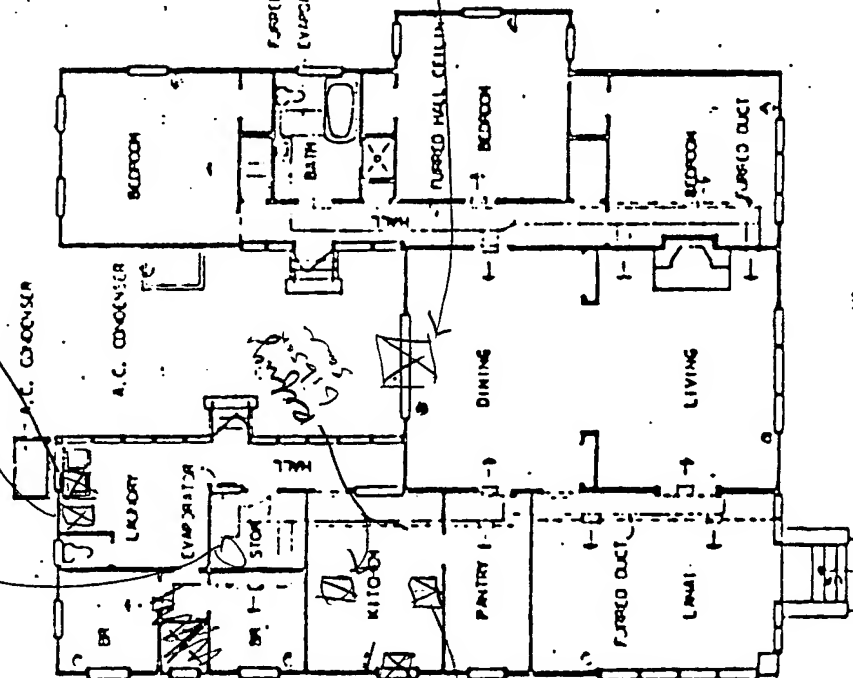
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub	4.0/10.5	126 F	
Bathroom Shower	1.5/10.5	120 F	

6,000 Btu
Edison
32 9.0
47.206 FT2 J8
1 room
1 room



AX/C
TRANSONIC
MODEL CW-1000FC
SER. 1
115V/6.11φ
1001000 BTUH
9.7A
1.09 kW

[Handwritten signature]

BUILDING NUMBERS		SFC SITE PLAN SHEET 31		FOR	
AREA D	401.	402.	403.	404.	405.
	406.	407.	408.	409.	410.
	413.	414.	415.	416.	417.
	418.	419.	420.	421.	422.
	423.	424.	425.	426.	427.
	430.	431.	432.	433.	434.
	435.	436.	437.	438.	439.
	440.	441.	442.	443.	444.
	447.	448.	449.	450.	451.
	454.	455.	456.	457.	458.
	461.	462.	463.	464.	465.
	468.	469.	470.	471.	472.
	475.	476.	477.	478.	479.
	482.	483.	484.	485.	486.
	489.	490.	491.	492.	493.
	496.	497.	498.	499.	500.
	503.	504.	505.	506.	507.
	510.	511.	512.	513.	514.
	517.	518.	519.	520.	521.
	524.	525.	526.	527.	528.
	531.	532.	533.	534.	535.
	538.	539.	540.	541.	542.
	545.	546.	547.	548.	549.
	552.	553.	554.	555.	556.
	559.	560.	561.	562.	563.
	566.	567.	568.	569.	570.
	573.	574.	575.	576.	577.
	580.	581.	582.	583.	584.
	587.	588.	589.	590.	591.
	594.	595.	596.	597.	598.
	599.	600.	601.	602.	603.
	606.	607.	608.	609.	610.
	613.	614.	615.	616.	617.
	619.	620.	621.	622.	623.
	624.	625.	626.	627.	628.
	629.	630.	631.	632.	633.
	636.	637.	638.	639.	640.
	641.	642.	643.	644.	645.
	648.	649.	650.	651.	652.
	655.	656.	657.	658.	659.
	662.	663.	664.	665.	666.
	669.	670.	671.	672.	673.
	676.	677.	678.	679.	680.
	683.	684.	685.	686.	687.
	690.	691.	692.	693.	694.
	697.	698.	699.	700.	701.
	704.	705.	706.	707.	708.
	711.	712.	713.	714.	715.
	718.	719.	720.	721.	722.
	724.	725.	726.	727.	728.
	729.	730.	731.	732.	733.
	736.	737.	738.	739.	740.
	741.	742.	743.	744.	745.
	748.	749.	750.	751.	752.
	755.	756.	757.	758.	759.
	762.	763.	764.	765.	766.
	769.	770.	771.	772.	773.
	776.	777.	778.	779.	780.
	783.	784.	785.	786.	787.
	790.	791.	792.	793.	794.
	797.	798.	799.	800.	801.
	804.	805.	806.	807.	808.
	811.	812.	813.	814.	815.
	818.	819.	820.	821.	822.
	825.	826.	827.	828.	829.
	832.	833.	834.	835.	836.
	839.	840.	841.	842.	843.
	846.	847.	848.	849.	850.
	853.	854.	855.	856.	857.
	860.	861.	862.	863.	864.
	867.	868.	869.	87	

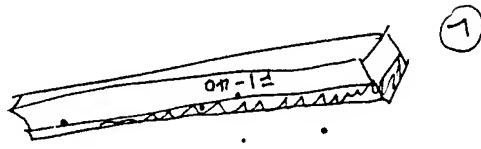
Type 20-III

REVISIONS	1
FAMILY HOLDING	
PROPERTY DATA FOR AIR CONDITIONING PROJECTS	
OFFICERS' QUARTERS SCHOFIELD BARS DE AND I	
FLOOR PLAN J BR	
SCHOFIELD BARBERS	CHAM, HAWAII
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN	
COMPS OF ENGINEERS	
HONOLULU, HAWAII	

FLOOR PLAN

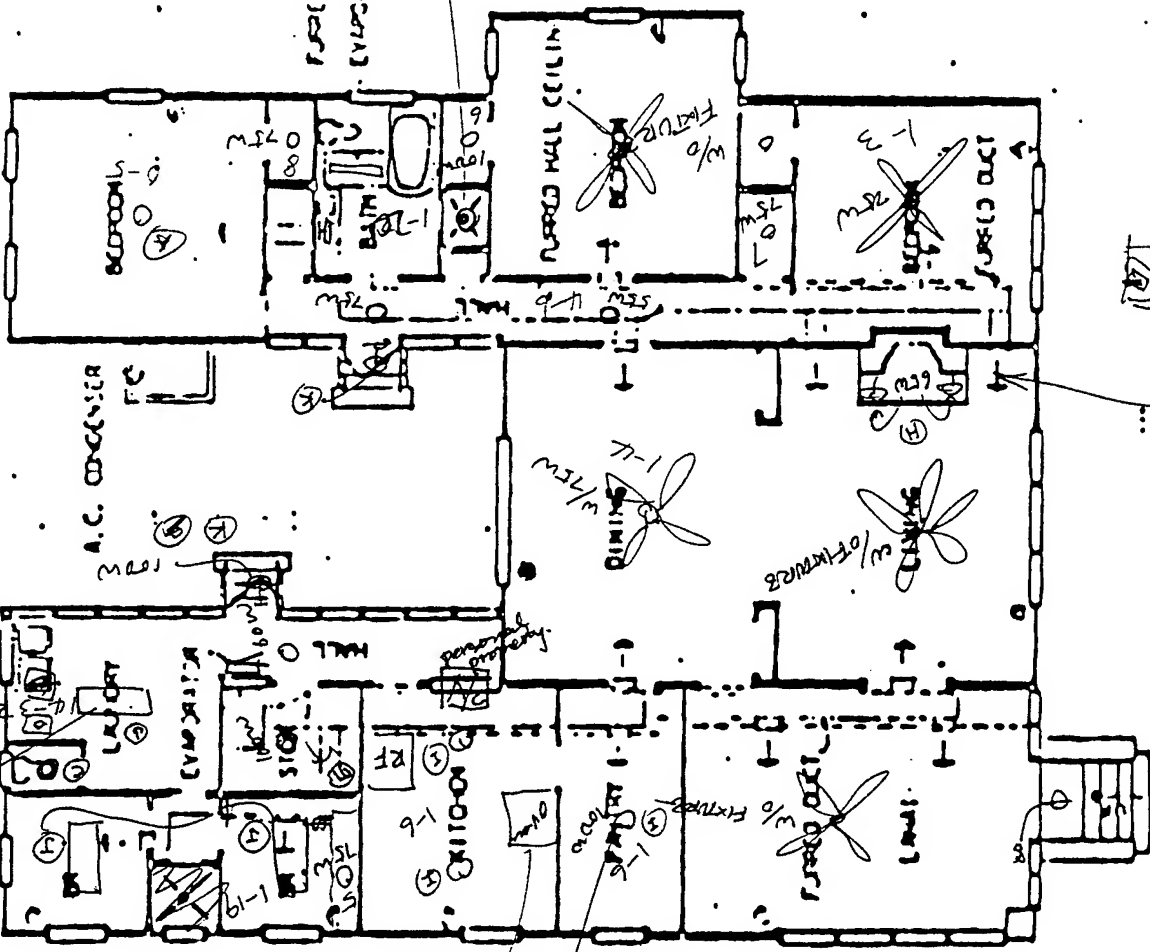


419

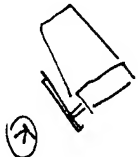
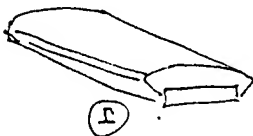


Heater lamp
see photo

RETRACTABLE
SHUTTER



A/C → Feeders



Date: 1/10/96
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 421

Building Type: 20-111

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 5

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

same as 401

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as 401

Same as 401

Same as 401

- Same as 401

Same as 401

- Same as 401

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

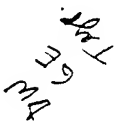
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Hall Shower	2.2/10.5	122° F	
Bath Tub	4.5/10.5	117 F	

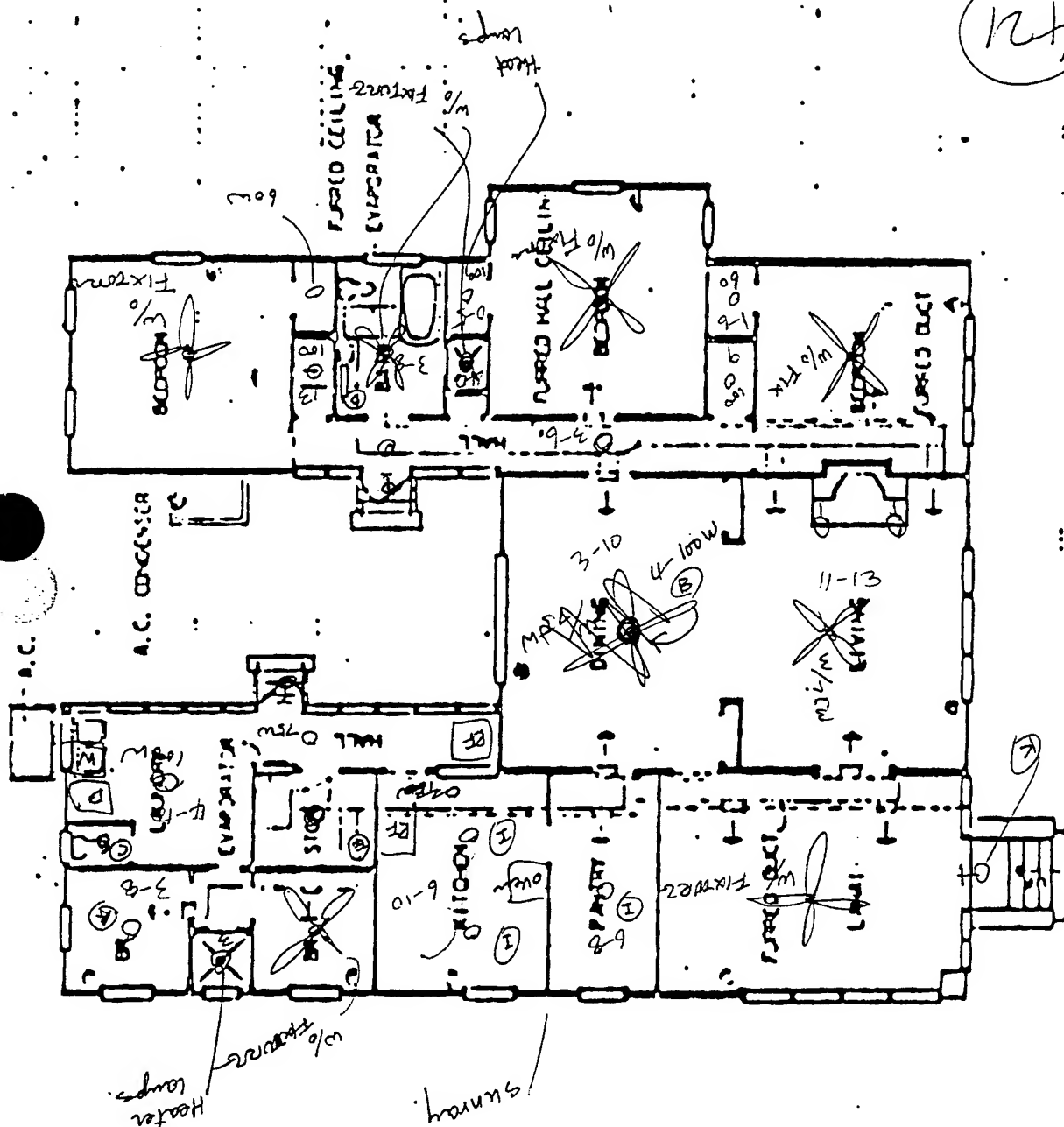
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Type 20-III

REVISIONS	
	FAMILY HOLDING
	TRANSITORY DATA FOR AIR CONDITIONING PROJECTS
	OFFICERS' QUARTERS SCHEDULED AREAS ONE AND TWO
	FLOOR PLAN 3 BR
	SCHEDULED DATES
	GEN. MONTH
	U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN
	GROUPS OF ENGINEERS
	MOORE, HAWAII

12h



UNIT TYPE 20-IV

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 804

Building Type: 20-1V

Apartment: —

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 6

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 3

Average No. of Times Dishwasher Used/Day: No Used

Remarks: _____

2.0 ARCHITECTURAL

*crawl space under
unit = 2'*

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Walls _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Roof _____

Asphalt Shingles _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
✓ Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 120 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: Not insulated, Inter con. HP piping
Insulation Thickness: not insl.

e. Is Hot Water Circulated? No

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage
- b. Areas Served Entire
- c. Manufacturer and Model Hart Model FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities: ✓
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 66 gal

- g. Heating Capacity 2250 W
 h. Type Controls (Air, Steam, Electric) E
 i. When Installed & Condition good cond.
 j. Heater Temperature Setting _____
 k. Average Water Maintained Temperature _____
 l. Temperature Differential (j) - (k) _____
 m. Is Hot Water Supply Adequate _____
 n. Insulation Thickness _____
 o. Insulation Material _____
 p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
 2) Galons HW/Wash _____
 3) Booster Heater Mfg/Mdl _____
 4) Heating Source _____
 5) Capacity _____
 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
 2) Setting: Hot _____ Warm _____ Cold _____
 3) Gallons HW/Wash _____
 4) Electrical Data _____

see sketch

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	5.2/10s	120F	
Bathroom Shower (Main)	1.2/10s	117F	
Bathroom Tub	6.5/10s	117F	

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 805

Building Type: 20-1V

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all day

No. of Occupants: 5

Average No. of Showers/Day: 8

Average No. of Laundry Loads/Week: 20

Average No. of Times Dishwasher Used/Day: 2

Remarks: _____

2.0 ARCHITECTURAL

Construction

same as 804

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

same as 804

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

1) Condition of circulator

2) Circulator capacity

3) Is aquastat provided?

4) Aquastat temperature setting

5) Mfg/Model

6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location

b. Areas Served

c. Manufacturer and Model

d. Energy (Oil, Gas, Electric, Coal, Etc.)

e. Type Heaters & Quantities:

1) Storage

2) Instantaneous

3) Semi-Instantaneous

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub SK	32/10s	150°F	
Bath tub	42/10s	146°F	

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 807

Building Type: 20-1V

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 6

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 2

Remarks: _____

2.0 ARCHITECTURAL

same as 804

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

same as 804

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

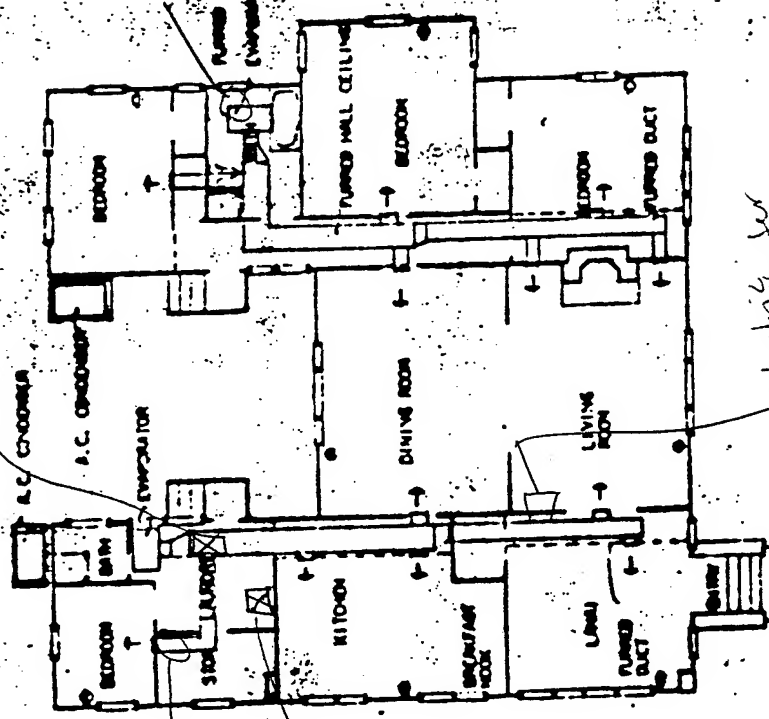
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub St	1.52/10s	108 F	
Shower (Main)	32/10s	108 F	



BUILDING NUMBERS

803.	804.	805.	806.	807.	808.
816.	817.	818.	819.	820.	821.
822.	823.	824.	825.	826.	827.
828.	829.	830.	831.	832.	833.

SEE SITE PLAN SHEET 20 FOR LOCATION

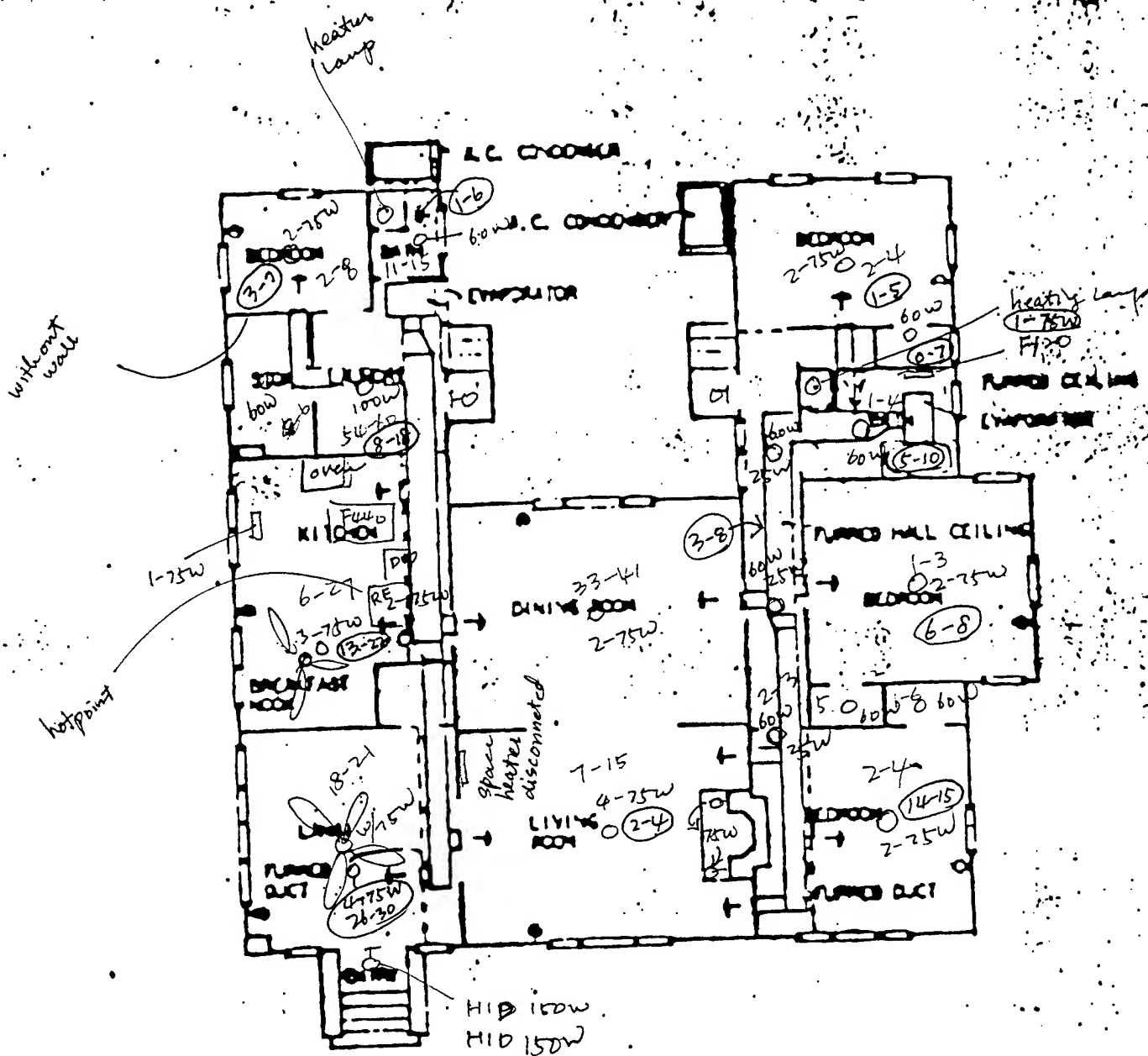
Type 20-IV

REVISIONS		FAMILY NUMBER	
BUDGETARY DATA FOR AIR CONDITIONING PROJECT		OFFICERS' QUARTERS SCHEDULE	
FLOOR PLAN 3 IN		AREA TYPE	
SCHEDULED BUILDINGS		NAME, DATE	
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN		COMPS OF DISTRICTS	
HONOLULU, HAWAII		NOV 1975	
LOC CODE 1250	26	27	28



FLOOR PLAN
SCALE 1/8" = 1'-0"

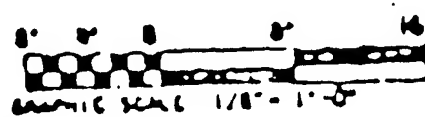
807 R



FLOOR PLAN
SCALE 1/8" = 1'-0"

TYPE 20 TV

803 804 805 806 (807) 808 809 816 817 818 819
820 (821) 822 823 824



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 809

Building Type: 20-1V

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 7

Average No. of Showers/Day: 8

Average No. of Laundry Loads/Week: 35

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 804

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window	Yes	No
Tinted	✓	
Reflective Coating		✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as 804

- a. Is System Supported from (check one):
 _____ Central Plant _____ One System per Building
 _____ Several Small Systems per Building
 _____ Individual EWH/Unit
- b. Domestic Hot Water Temperatures provided: _____ °F
 _____ °F
- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
 Insulation Thickness: _____
- e. Is Hot Water Circulated? _____
- 1) Condition of circulator _____
 - 2) Circulator capacity _____
 - 3) Is aquastat provided? _____
 - 4) Aquastat temperature setting _____
 - 5) Mfg/Model _____
 - 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

5

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	32/10s	140F	
(Main)			
Bathroom Shower	22/10s	130F	Hand shower head

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 821
Building Type: 20-1V
Apartment: 1
No. Bedrooms: 4
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: _____
No. of Occupants: 4
Average No. of Showers/Day: 2
Average No. of Laundry Loads/Week: 14
Average No. of Times Dishwasher Used/Day: every other day
Remarks: _____

2.0 ARCHITECTURAL

Crawl space ~ 1'-18"
under house

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____Outside Film _____Insulation _____Wood _____Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____Material _____ Thickness (In.) _____ R Value _____Outside Film _____Insulation _____Wood _____Asphalt Shingles _____Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating /

3.0 HOT WATER SYSTEM

same as 804

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

 Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	32/10s	124 F	

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 824

Building Type: 20-1V

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 6

Average No. of Showers/Day: _____

Average No. of Laundry Loads/Week: 14

Average No. of Times Dishwasher Used/Day: Not at all

Remarks: _____

2.0 ARCHITECTURAL

Same as 804

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as 804

same as 804

same as 804

- same as 804

same as 804

- same as 804

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	3.5l/10s	124°F	
Main Bath Shower	12/10s	124°F	

UNIT TYPE 20-V

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 810

Building Type: 201

Apartment: B

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

*2' Crawl space
under house*

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood wall

Inside Film _____

Total

U-Factor _____ Area _____

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

*Wood**Asphalt Shingles*

Inside Film _____

Total

U-Factor _____ Area _____

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 / Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: yes
Insulation Thickness: 1"

e. Is Hot Water Circulated? No

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Laundry
- b. Areas Served entire Unit
- c. Manufacturer and Model Hart FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 66 gal

- g. Heating Capacity 7250 W
h. Type Controls (Air, Steam, Electric) E
i. When Installed & Condition _____
j. Heater Temperature Setting _____
k. Average Water Maintained Temperature _____
l. Temperature Differential (j) - (k) _____
m. Is Hot Water Supply Adequate _____
n. Insulation Thickness 1"
o. Insulation Material Armaflex
p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
2) Galons HW/Wash _____
3) Booster Heater Mfg/Mdl _____
4) Heating Source _____
5) Capacity _____
6) Electrical Data _____

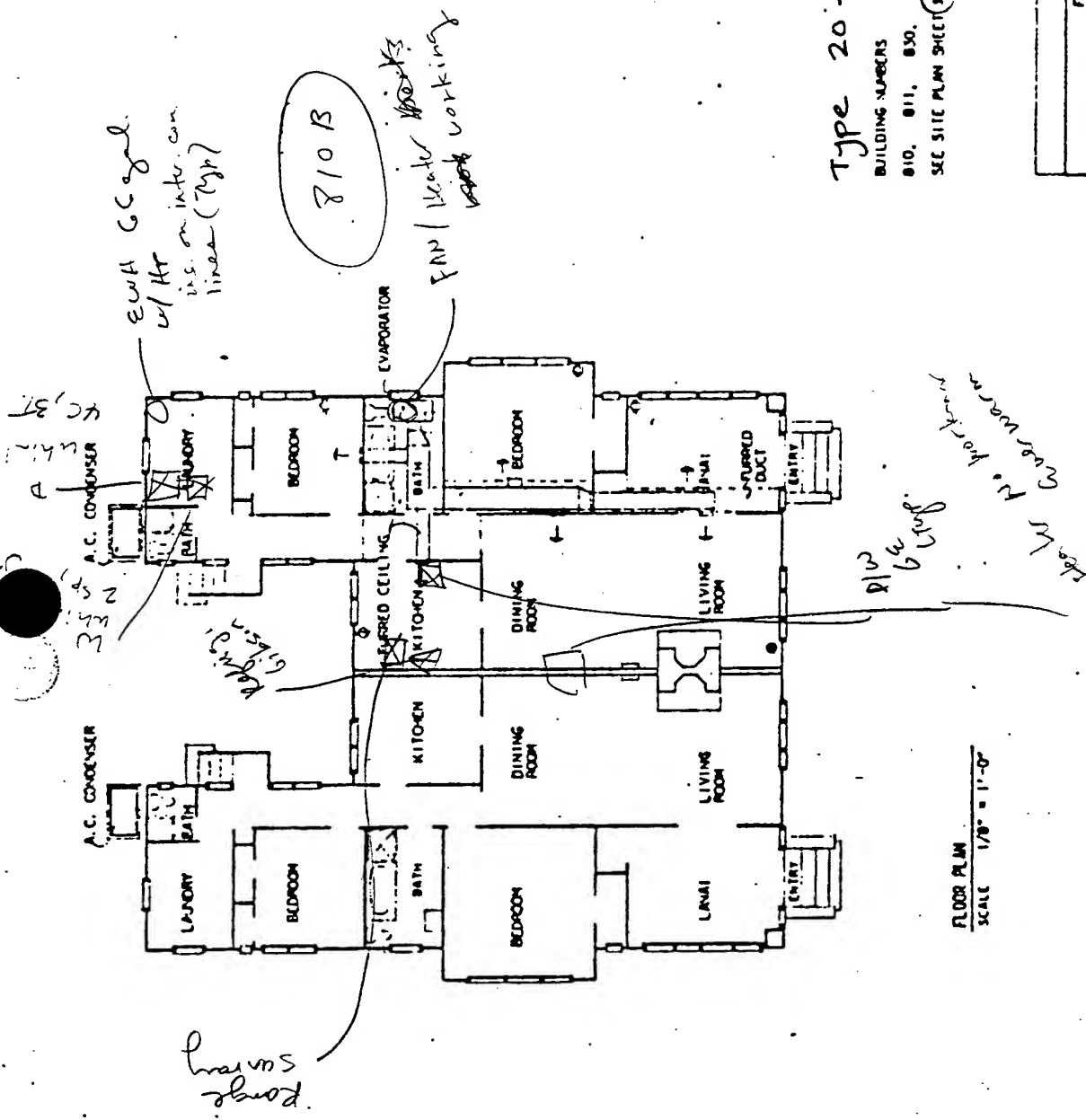
b. Clothes Washer

- 1) Mfg/Mdl _____
2) Setting: Hot _____ Warm _____ Cold _____
3) Gallons HW/Wash _____
4) Electrical Data _____

*See
plan*

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	42/105	108F	



Type 20-V
 BUILDING NUMBERS
 810, 811, 830, 831, 832, 833, 844
 SEE SITE PLAN SHEET (31) FOR LOCATION

FLOOR PLAN
 SCALE 1/8" = 1'-0"

0' 4' 8' 16'
 GRAPHIC SCALE 1/8" = 1'-0"

REVISIONS				
FAMILY HOUSING				
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS				
OFFICERS' QUARTERS	SCHOOFIELD	AREA	J	
FLOOR PLAN	2 BR (DOUBLE)	TYPE	V	
SCHOOFIELD BARRACKS		DATE	10-11-61	
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN				
CORPS OF ENGINEERS				
HONOLULU, HAWAII				
LOC. CODE	8299	25	23	07 347

MAY 1973

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 811

Building Type: 20-V

Apartment: B

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: 1 each

Average No. of Laundry Loads/Week: 1

Average No. of Times Dishwasher Used/Day: Not Used

Remarks: _____

2.0 ARCHITECTURAL

Construction

same as 810

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

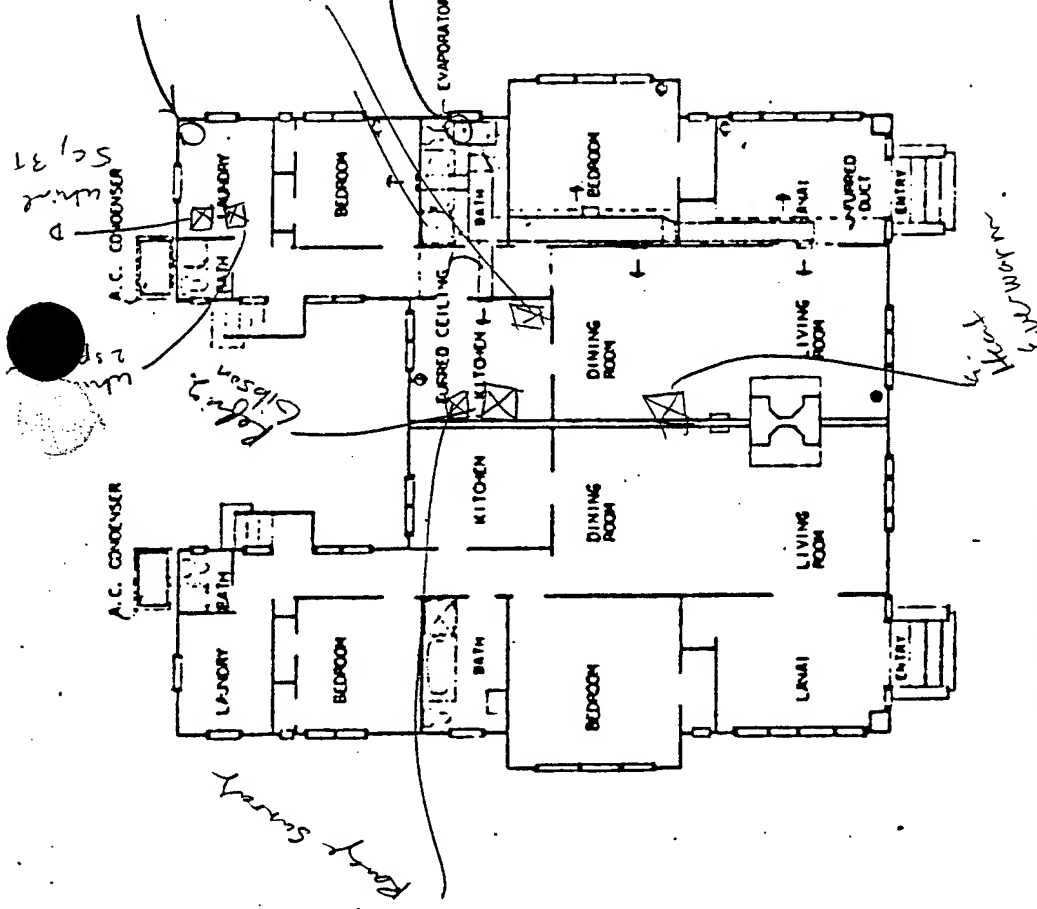
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	32/105	112°F	
Main Shower	12/105	110°F	

NO Heat Pump at
52 gal. same type



FLOOR PLAN
SCALE 1/8" = 1'-0"

REVISIONS				
FAMILY HOUSING				
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS				
OFFICERS' QUARTERS	SCHOFIELD	AREA	J	TYPE
FLOOR PLAN 2 BR (10'x12')				
SCHOFIELD BARRACKS				
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN				
CORPS OF ENGINEERS				
HONOLULU, HAWAII				
LOC. CODE 9239	25	23	07	341



MAY 1973

(31)

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 830

Building Type: 20-V

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

~ 1' Crawl space
under House

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood wall _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood _____

Asphalt Shingles _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted _____

Reflective Coating _____

Same as 710

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

_____ Central Plant _____ One System per Building

_____ Several Small Systems per Building

_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circulator _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
 - 1) Storage _____
 - 2) Instantaneous _____
 - 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

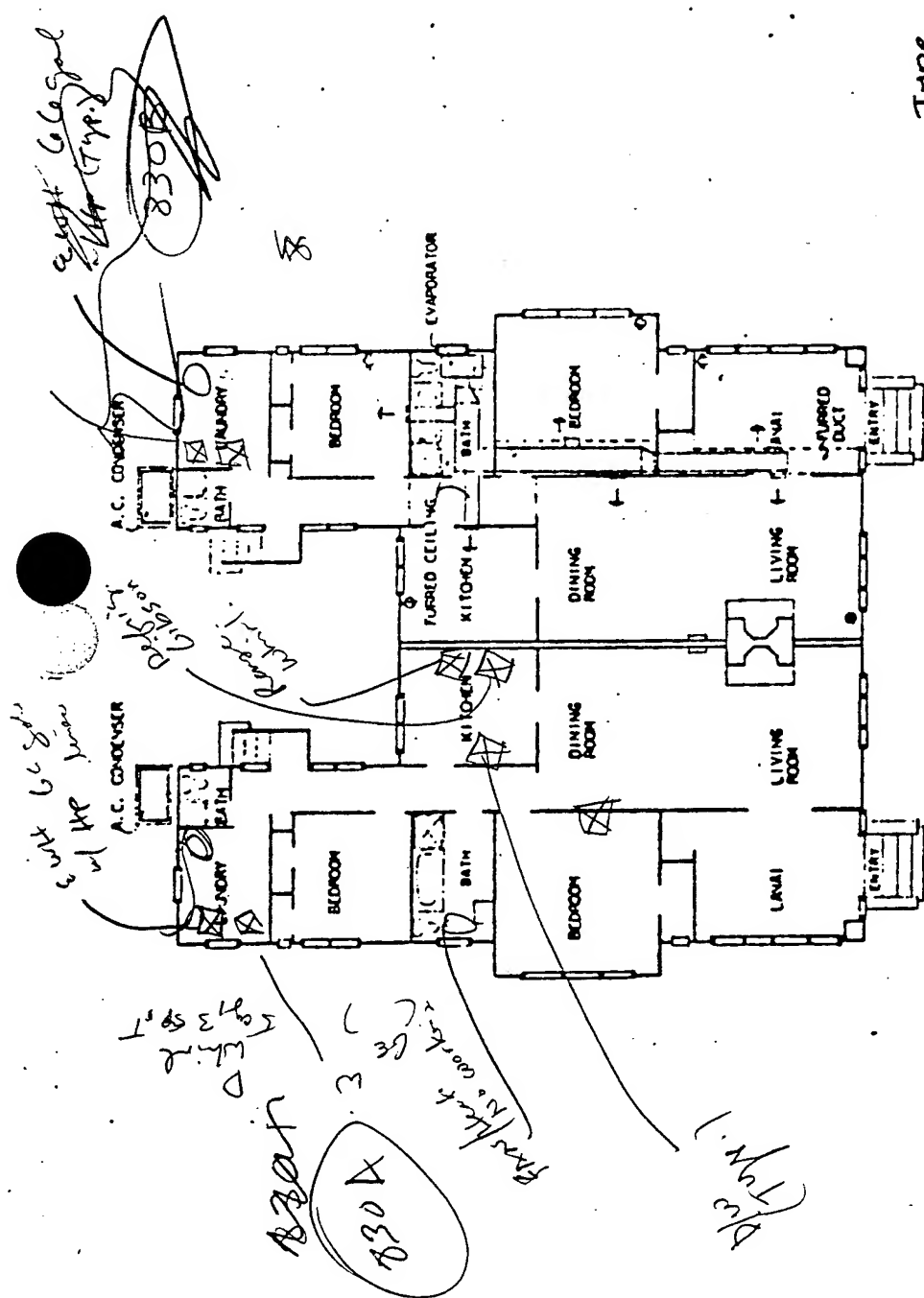
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
laundry Tub Sk	32/105	110 F	



Type 20-V

BUILDING NUMBERS

810, 811, 830, 831, 832, 833, 844

SEE SITE PLAN SHEET(S) FOR LOCATION

REVISIONS				
FAMILY HOUSING				
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS				
OFFICERS' QUARTERS SCHOOFIELD AREA J				
FLOOR PLAN 2 BR (DUPLEX) TYPE A				
SCHOOFIELD BARRACKS				
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN				
CORPS OF ENGINEERS				
HONOLULU, HAWAII				
LOC. CODE 8299	25	23	07	94

61

MAY 1973

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 831

Building Type: 20-V

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 5-6

No. of Occupants: 2

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 810

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as 8/0

same as 8/0

same as 8/0

- same as 8/0

same as 8/0

- same as 8/0

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

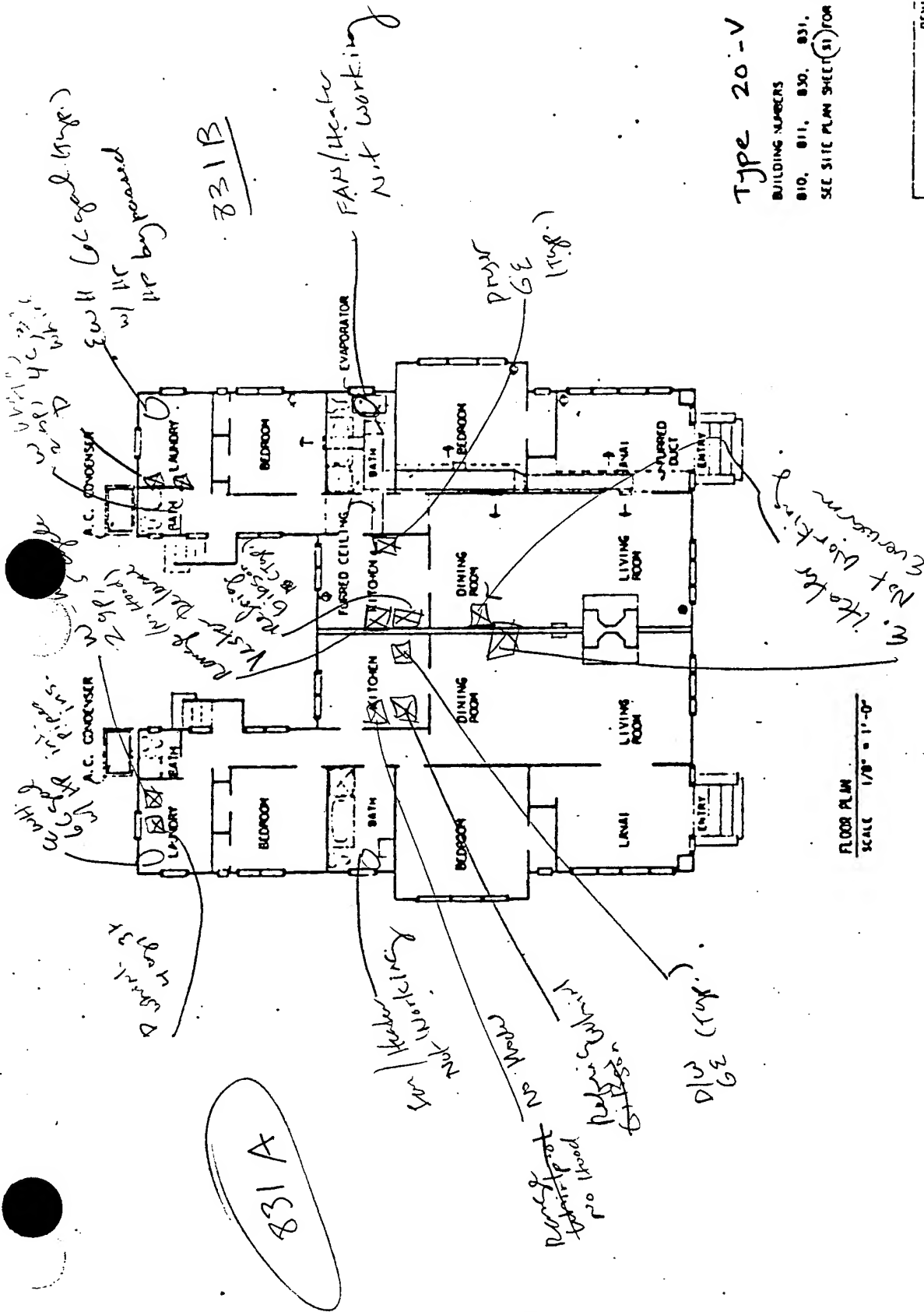
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

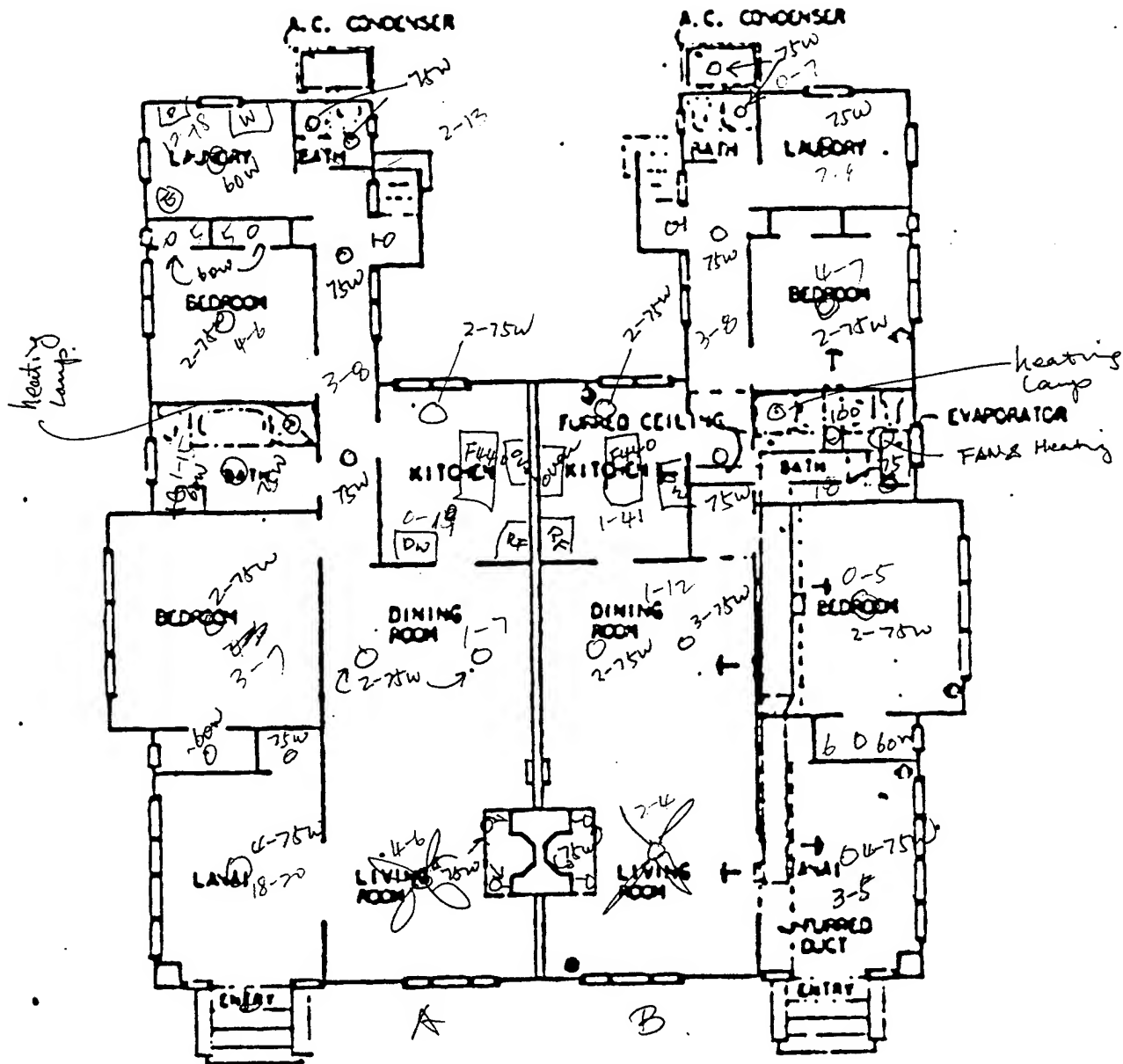
Fixture	Flow	Water Temp.	Remarks
Main Shower	12/105	118 F	



REVISIONS				
FAMILY HOUSING				
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS				
OFFICERS' QUARTERS SCHOFIELD AREA J				
FLOOR PLAN 2 BR (DUPLEX) TYPE 4				
SCHOFIELD BARRACKS DAWU, HAWAII				
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN				
CORPS OF ENGINEERS				
HONOLULU, HAWAII				
LOC. CODE 9298	25	23	07	541

MAY 1973

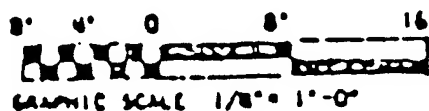
81



FLOOR PLAN
SCALE 1/8" = 1'-0"

Type 20V

810, 811, 830, 831, 832, 833, 844



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 831

Building Type: 20-V

Apartment: B

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: _____

Average No. of Laundry Loads/Week: 21

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 810

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

same as 710

a. Is System Supported from (check one):

 Several Small Systems per Building

_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location _____

b. Areas Served _____

c.. Manufacturer and Model

d. Energy (Oil, Gas, Electric, Coal, Etc.) _____

e. Type Heaters & Quantities:

- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

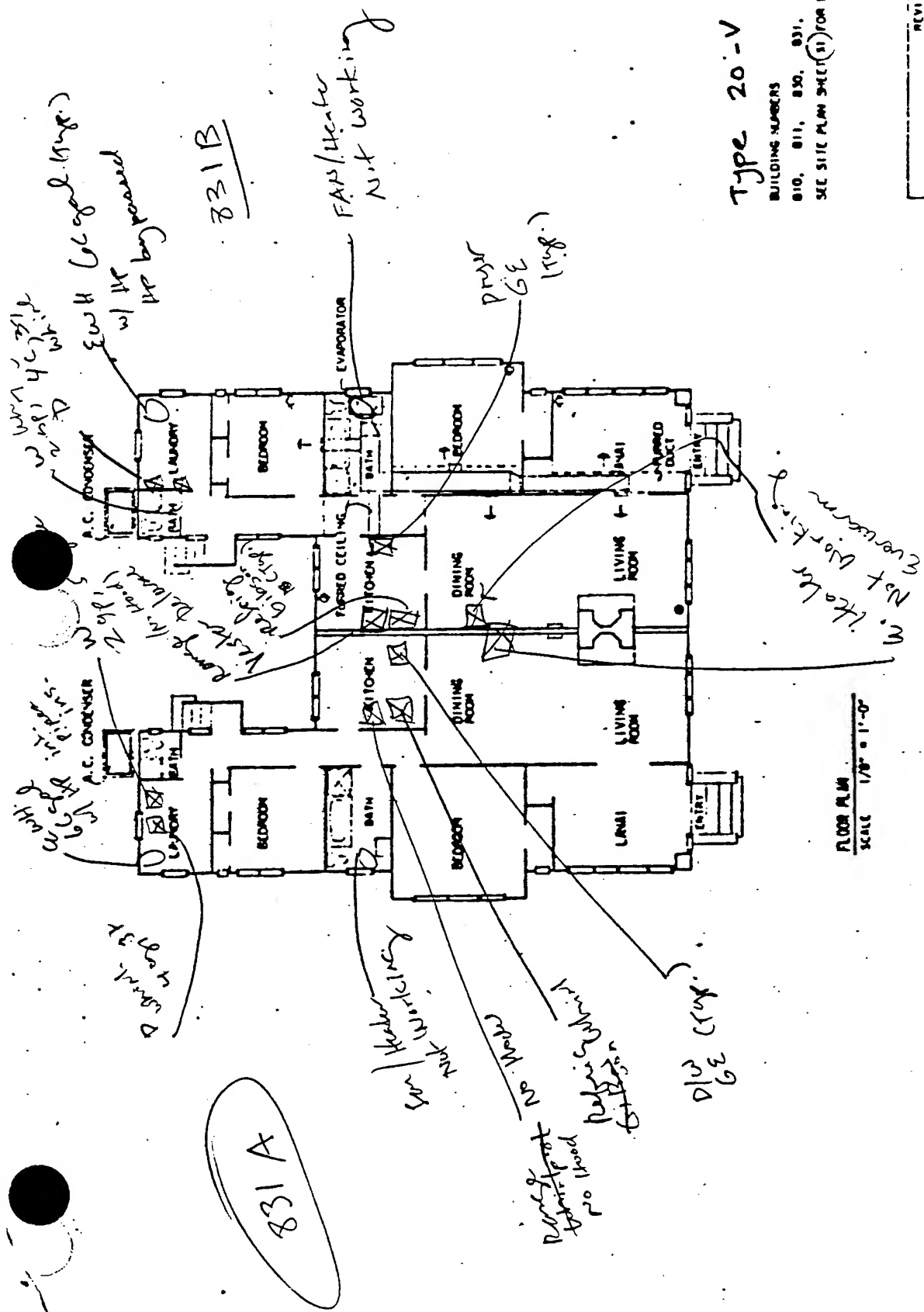
3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Laundry Tub Sk	3.5 l/10s	120 F	

831B

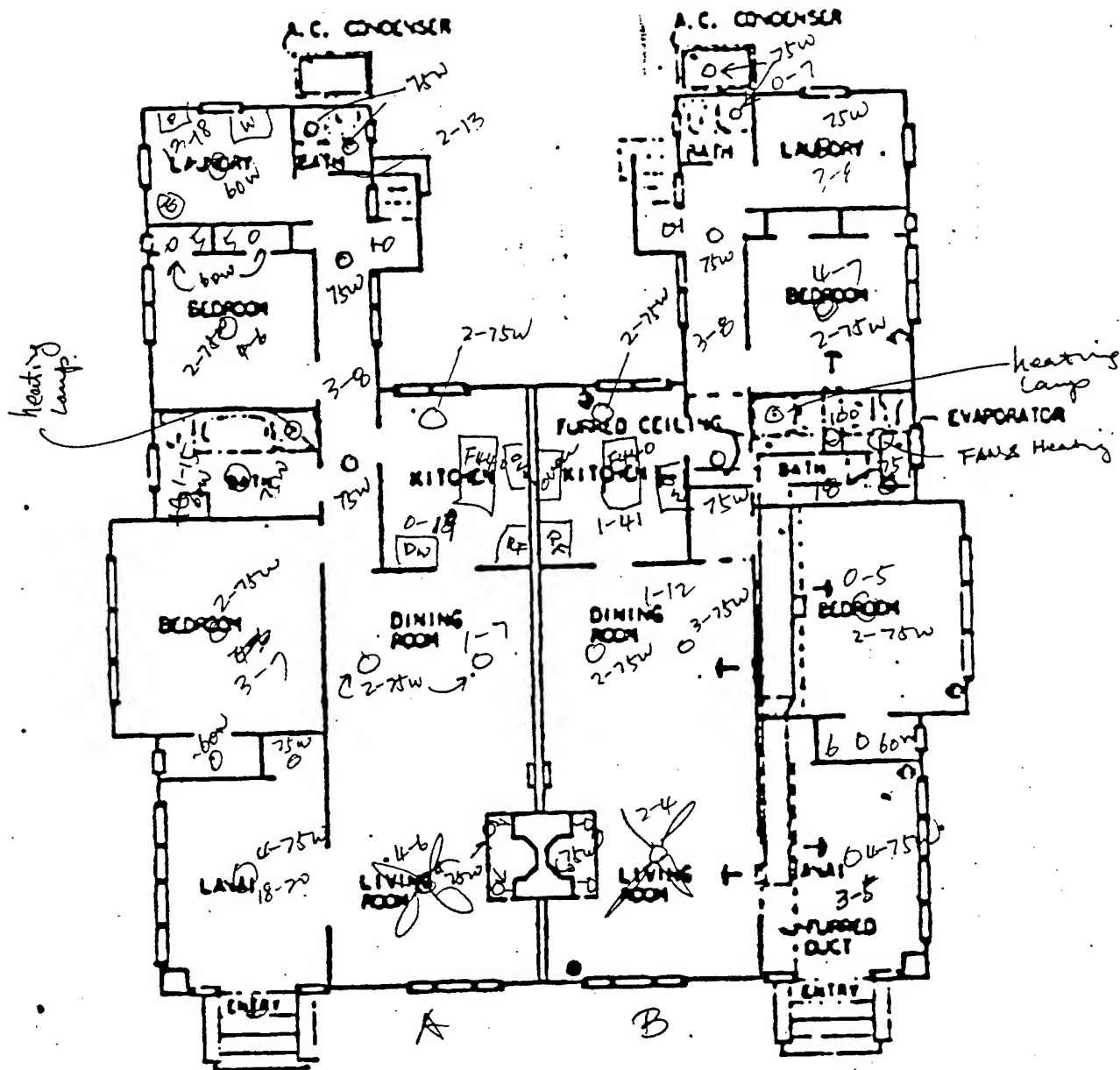
Type 20-V

BUILDING NUMBERS
810, 811, 830, 831, 832, 833. SEE
SEE SITE PLAN SHEET (11) FOR LOCATION



831A

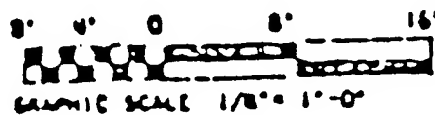
REVISIONS			
FAMILY HOUSING			
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS			
OFFICERS' QUARTERS		AREA J	
FLOOR PLAN 2 BR (COURT)		TYPE A	
SCOFFOLD BARBERES		DAWU, HAWAII	
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN			
COMPS OF ENGINEERS			
HONOLULU, HAWAII			
LOC. CODE 9499	25	23	07
			347 0



FLOOR PLAN
SCALE 1/8" = 1'-0"

Type 20V

810, 811, 830, 831, 832, 833, 844



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 833

Building Type: 20-V

Apartment: B

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 810

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as 810

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 / Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

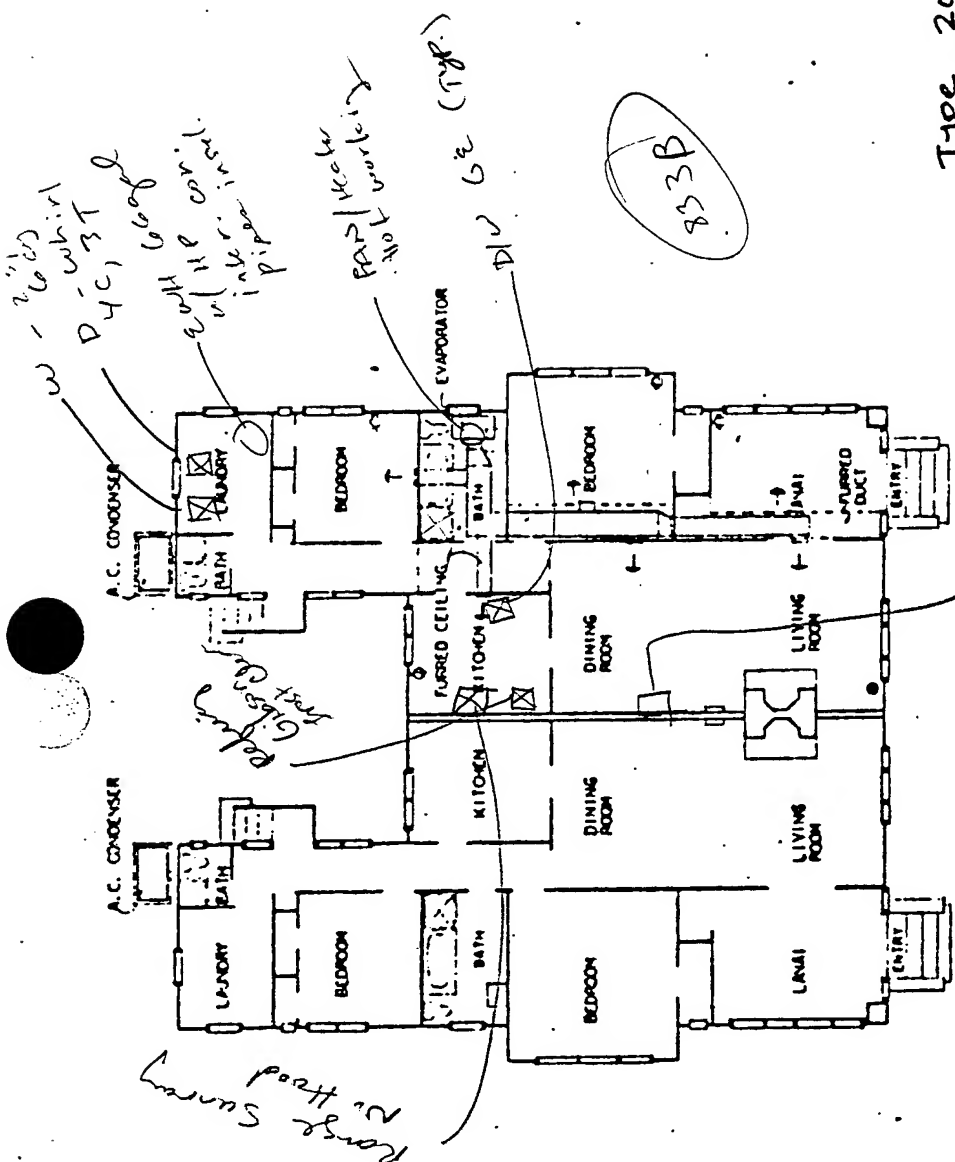
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Hair Bathtub	52/10s	138F	
Shower	2/10s	138F	



853B

Type 20-V

BUILDING NUMBERS
 810, 811, 830, 831, 832, 833, 844
 SEE SITE PLAN SHEET(S) FOR LOCATION

FLOOR PLAN
 SCALE 1/8" = 1'-0"

check
 heat warm
 (not working)

0' 4' 0' 8' 16'
 GRAPHIC SCALE 1/8" = 1'-0"

REVISIONS				
FAMILY HOUSING				
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS				
OFFICERS' QUARTERS SCHOFIELD	AREA J			
FLOOR PLAN 2 BR (EXPER)	TYPE N			
SCHOFIELD BARRACKS	DAWU, HAWAII			
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN				
CORPS OF ENGINEERS				
HONOLULU, HAWAII				
LOC. CODE 8298	25	23	07	347

MAY 1973 41)

UNIT TYPE 32-I

Date: 1/8/90
Prepared By: fr

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 52

Building Type: 32-1

Apartment: -

No. Bedrooms: 2

Area: A

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: _____

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: No D/W

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall Conc. Color: D M L

Material Thickness (In.) R Value

Outside Film

Insulation

Conc. Wall

Inside Film

Total

U-Factor Area

Roof (Incl. Clg.) Type: F P
Color: D M L

Material Thickness (In.) R Value

Outside Film

Insulation

Conc. Ceil

Wood Deck

Asphalt Shingle

Inside Film

Total

U-Factor Area

(2)

conc. foundation
No crawl space under
house

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 134 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: No visible insulation
Insulation Thickness:

e. Is Hot Water Circulated? NO

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage Closet
- b. Areas Served ALL
- c. Manufacturer and Model Hoyt Energy Master Model 52 FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) Electric
- e. Type Heaters & Quantities:
 - 1) Storage ✓
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 52 gal

(4)

2250 Watt
230V

Heat Pump - Feeders

- g. Heating Capacity 2250 W
 h. Type Controls (Air, Steam, Electric) E
 i. When Installed & Condition Good Condition
 j. Heater Temperature Setting _____
 k. Average Water Maintained Temperature 134
 l. Temperature Differential (j) - (k) _____
 m. Is Hot Water Supply Adequate Y
 n. Insulation Thickness None
 o. Insulation Material _____
 p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl None
 2) Galons HW/Wash _____
 3) Booster Heater Mfg/Mdl _____
 4) Heating Source _____
 5) Capacity _____
 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl Whirlpool 2-sp, 5 cycle
 2) Setting: Hot _____ Warm _____ Cold _____
 3) Gallons HW/Wash _____
 4) Electrical Data _____

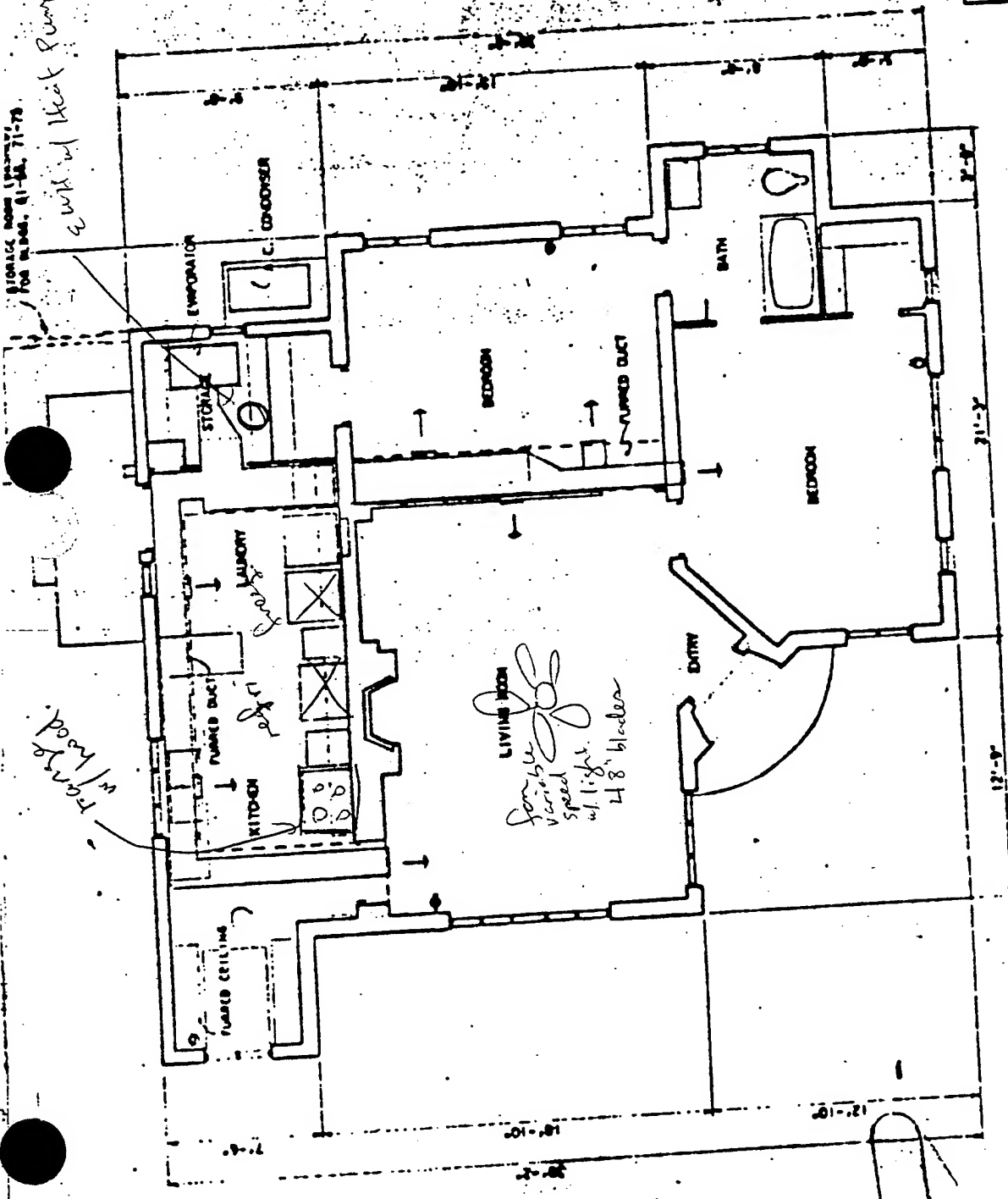
3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Kit Sk	32/205	134	
Master Bath Lav.	12/105	134	

#52

STORAGE ROOM (PROPERTY)
FOR M.B.S. 81-124, 71-73
w/ w/ Heat Pump also

range hood w/ head



LIVING ROOM
for 1/2
variable
speed
w/ 1 light
4 8" blades

32-1

BUILDING NUMBERS (w/ heat storage room)
41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
SEE SITE PLAN SHEET 67 FOR LOCATION

REVISIONS	
1	FINAL DESIGN
2	REVISED FOR AIR CONDITIONING PROJECT
3	REVISED FOR AIR CONDITIONING PROJECT
4	REVISED FOR AIR CONDITIONING PROJECT
5	REVISED FOR AIR CONDITIONING PROJECT
6	REVISED FOR AIR CONDITIONING PROJECT
7	REVISED FOR AIR CONDITIONING PROJECT
8	REVISED FOR AIR CONDITIONING PROJECT
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49	REVISED FOR AIR CONDITIONING PROJECT
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93	REVISED FOR AIR CONDITIONING PROJECT
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97	REVISED FOR AIR CONDITIONING PROJECT
98	REVISED FOR AIR CONDITIONING PROJECT
99	REVISED FOR AIR CONDITIONING PROJECT
100	REVISED FOR AIR CONDITIONING PROJECT

FLOOR PLAN
SCALE 1/4" = 1'-0"



NOV 1973

Date: 1/8/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 53

Building Type: 32-I

Apartment: 2

No. Bedrooms: 2

Area: A

Address: _____

Telephone No.: _____

Occupied Hours: 6 AM - 6 PM ~~WEEK~~ APOCCUP.

No. of Occupants: _____

Average No. of Showers/Day: 2 shower/person

Average No. of Laundry Loads/Week: 4-5 load

Average No. of Times Dishwasher Used/Day: None

Remarks: _____

2.0 ARCHITECTURAL

Same as K2

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

*an attic
w/ drop
plaster
in some
rooms*

Window Yes No
Tinted ✓ light
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 122 ^{kit.} °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: None
Insulation Thickness:

e. Is Hot Water Circulated? No

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

1.2 l in 10 S.
kit.

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl No MC
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
KIT SK	1.2l/10s	122	

STORAGE ROOM (PAPER)
FOR BOMB, 41-44, 71-75

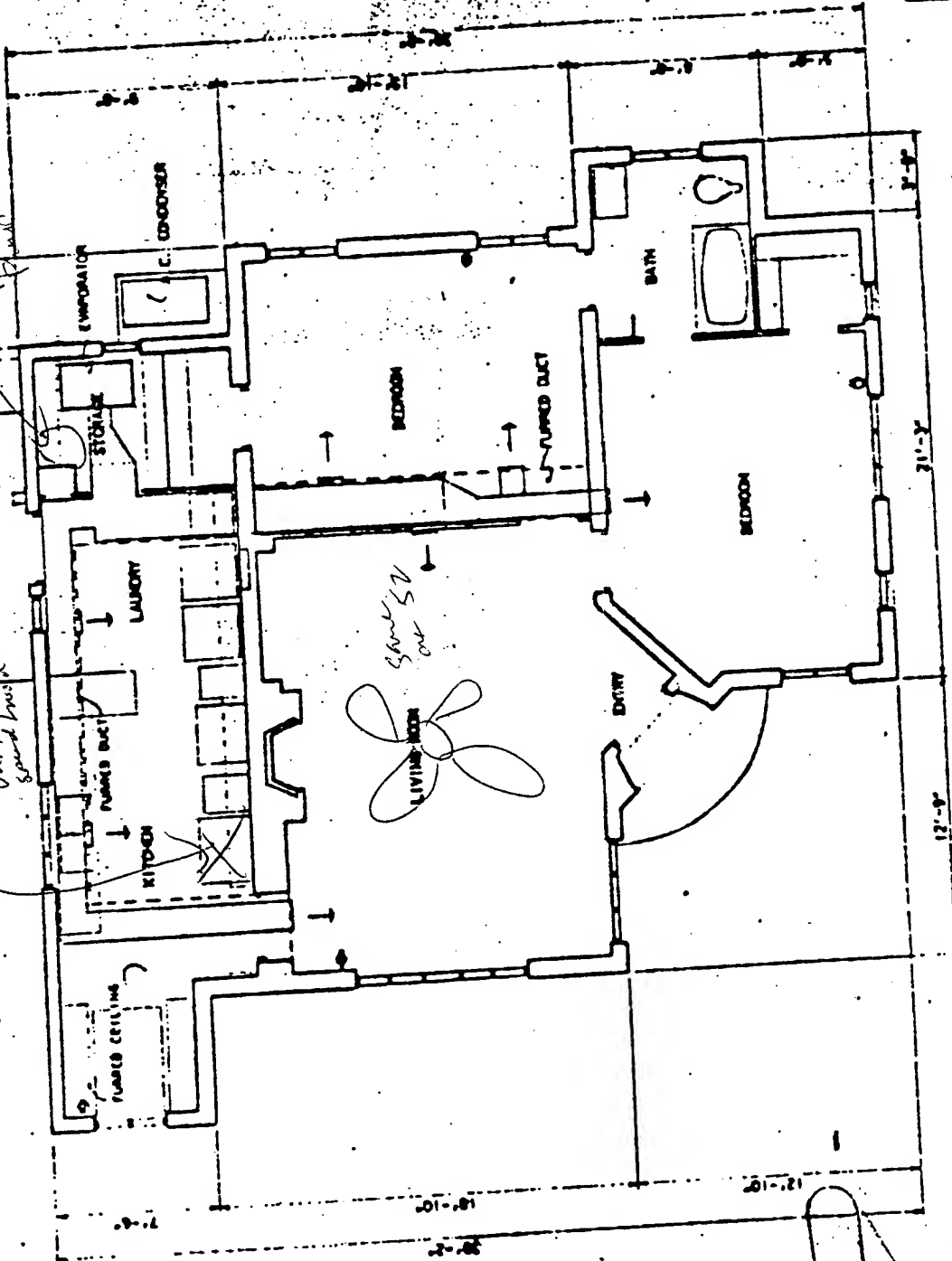
rough - life

50-14-10

paper
w/ Brown
Variable
Sound track

U. S. Army
Set on H. Setting
Set on H. Setting

#53



FLOOR PLAN
SCALE 1/8" = 1'-0"

GRAPHIC SCALE 1/8" = 1'-0"

BUILDING NUMBERS (WITH STAIRS) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

BUILDING NUMBERS (WITH STAIRS) 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200

SEE SITE PLAN SHEET FOR LOCATION

REVISIONS	DATE	BY	CHKD
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NOV 1975

Date: 1/8/90
Prepared By: CK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 54

Building Type: 32-1

Apartment: _____

No. Bedrooms: 2

Area: A

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: ~2/person

Average No. of Laundry Loads/Week: Varies ~ 3

Average No. of Times Dishwasher Used/Day: Not used

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 52

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 ✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 132 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location storage same as 52
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
- 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 52 gal

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher *Priv. not used*

- 1) Mfg/Mdl GE
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer *Priv.*

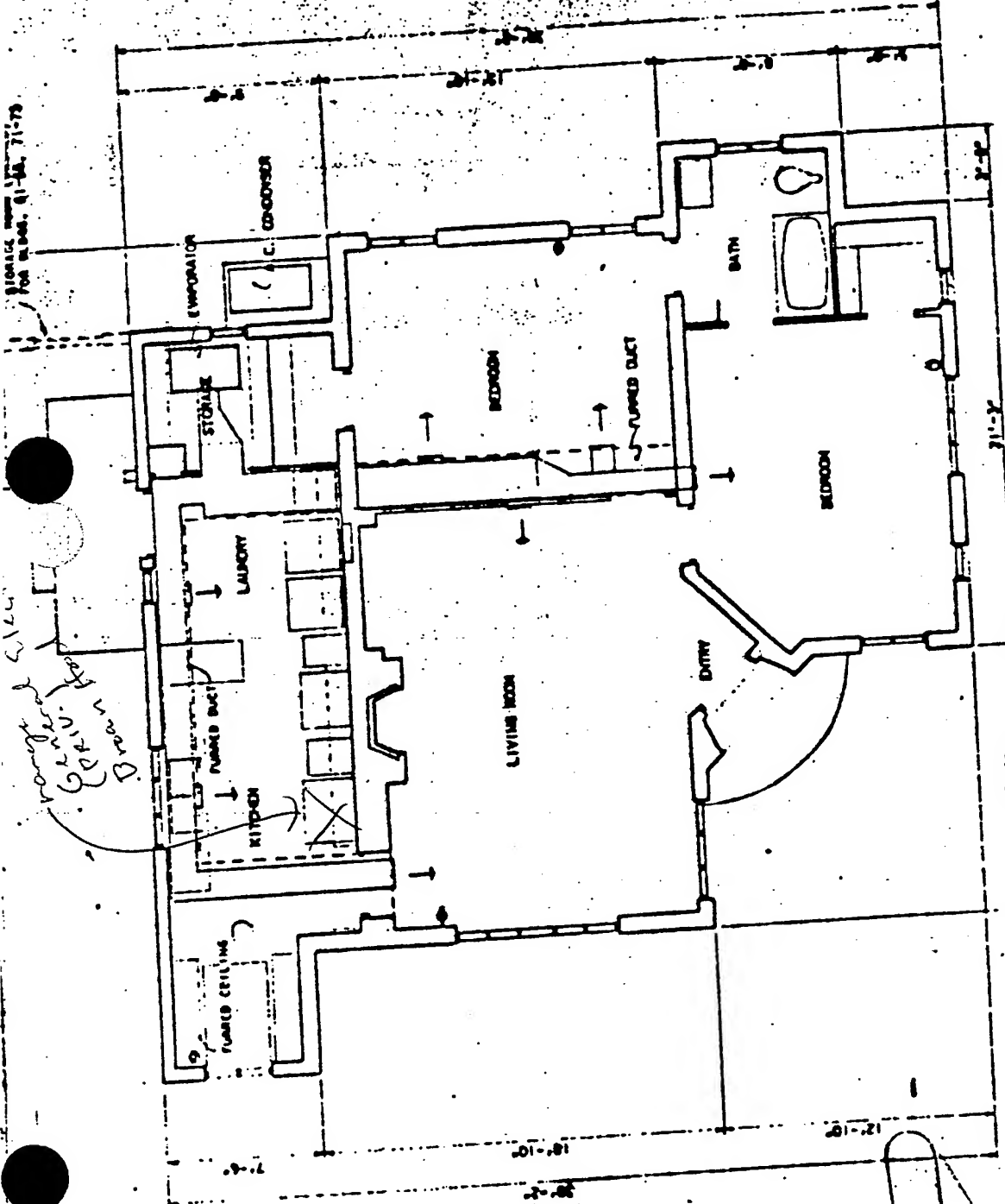
- 1) Mfg/Mdl GE Heavy duty Extra Large Capacity
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
KL SL	1.5 l/10s	132	

*6 cycle w/
himi-wash*

mean
Gardner
1913



FLOOR PLAN
SCALE 1/8" = 1'-0"

SECRET
JAN 10 1968

#58 Nest same

BUILDING NUMBERS (10' BASED STANDARD SCALE)

66.	20.	21.	22.	23
24.	25.	26.	27.	28.

BUILDING NUMBERS (10' IN STANDARD SCALE)

61.	62.	63.	64.	65.	66
71.	72.	73.	74.	75.	76

SEE SITE PLAN SHEET 60 FOR LOCATION

REVISED	FAMILY NAME		BIBLIOGRAPHY DATA AND CONTINUING PROJECT		AREA	
	23 NOB FAMILY SHOOTING					
	FLOOR PLAN					
	SCOTSFIELD BARRACKS		SPACES, ROOMS			
	U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN		COMPS OF BUILDINGS			
	NOB-2.1.1.1.1					
LAC. CODE 2070	26	23	67	342		

She say
Should ~~take~~ two switches
in bathroom

#5

72-1

BUILDING LOCATIONS (to be used in reverse order)

३
२
१

BUILDING MATERIALS (see also Structural Steel)

४
४२
४५
४८
४९
५०

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

Definition

DEPT OF AGRICULTURE

SECURITY DATA FOR THE COINTEGRATING PROJECT

23 NOV 1967 0000Z

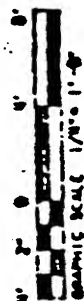
DATE: 7/1/80

U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN
COMAND OF DISTRICT

11-1000

8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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172



WY 0017

18-1-2/1 1000

513

Plumbing
is new in
all these types
1 year ago

Date: 1/8/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 55

Building Type: ~~A~~ 32 I

Apartment: _____

No. Bedrooms: 2

Area: A

Address: _____

Telephone No.: _____

Occupied Hours: gone most of day till say 5 pm

No. of Occupants: 3

Average No. of Showers/Day: twice a day per person 6 total

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: None

Remarks: _____

2.0 ARCHITECTURAL

Same as 52

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 132 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: None
Insulation Thickness:

e. Is Hot Water Circulated? NO

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Shower same as 12
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
- 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

4 x 2 in 105
KIT.

(4)

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

same as 5

3.3 HW USING APPLIANCES

a. Dishwasher *none*

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

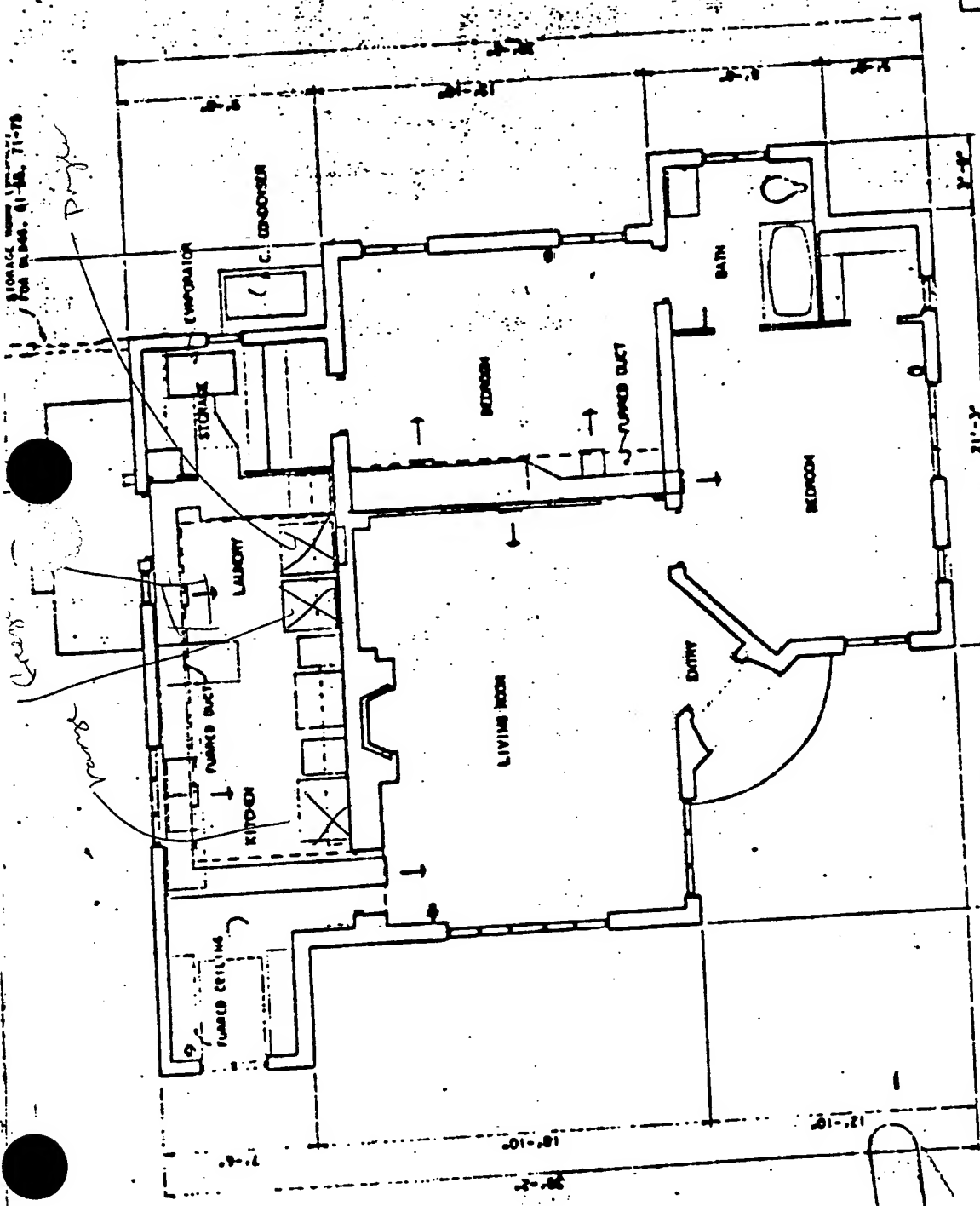
same as 52

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Kit Sk	42/105	132	
Shwr	1.52/105	132	

STONARD NAME 17-17-78
FOR MARCH 31-31-78



BUILDING NUMBERS (10' WEST STREET)

68.	50.	51.	52.	53.
54.	56.	55.	57.	58.

BUILDING NUMBERS (10' EAST STREET)

61.	62.	63.	64.	65.
71.	72.	73.	74.	75.

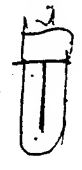
SEE SITE PLAN SHEET 60 FOR LOCATIONS

REVIEWS	FAMILY HISTORY		
SUBSTANTIAL DATA FOR ANCHORING PROCEED			
23 NOV FAMILY SHOOTING	AREA		
FLOOR PLAN	NOVELLUS BARRACKS	GARDEN, GARDEN	
U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN			
CHIEF OF POLICE			
NOVELLUS BARRACKS			
LOC. CODE 2000	26	25	07 34

FLOOR PLAN
SCALE 1/4" = 1'-0"



351-2000



F13WPL

7-14

BUILDING NUMBERS (SEE LIST STATIONARY)

50 51 52 53 54 55 56 57 58 59

BUILDING NUMBERS (SEE LIST STATIONARY)

61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

SEE SITE PLAN SHEET 10 FOR LOCATION

REVISIONS

FAMILY ROOM

REVISION DATA FOR AIR CONTINUOUS PROJECT

23 HOD FAMILY BATHROOM

NOV 1973

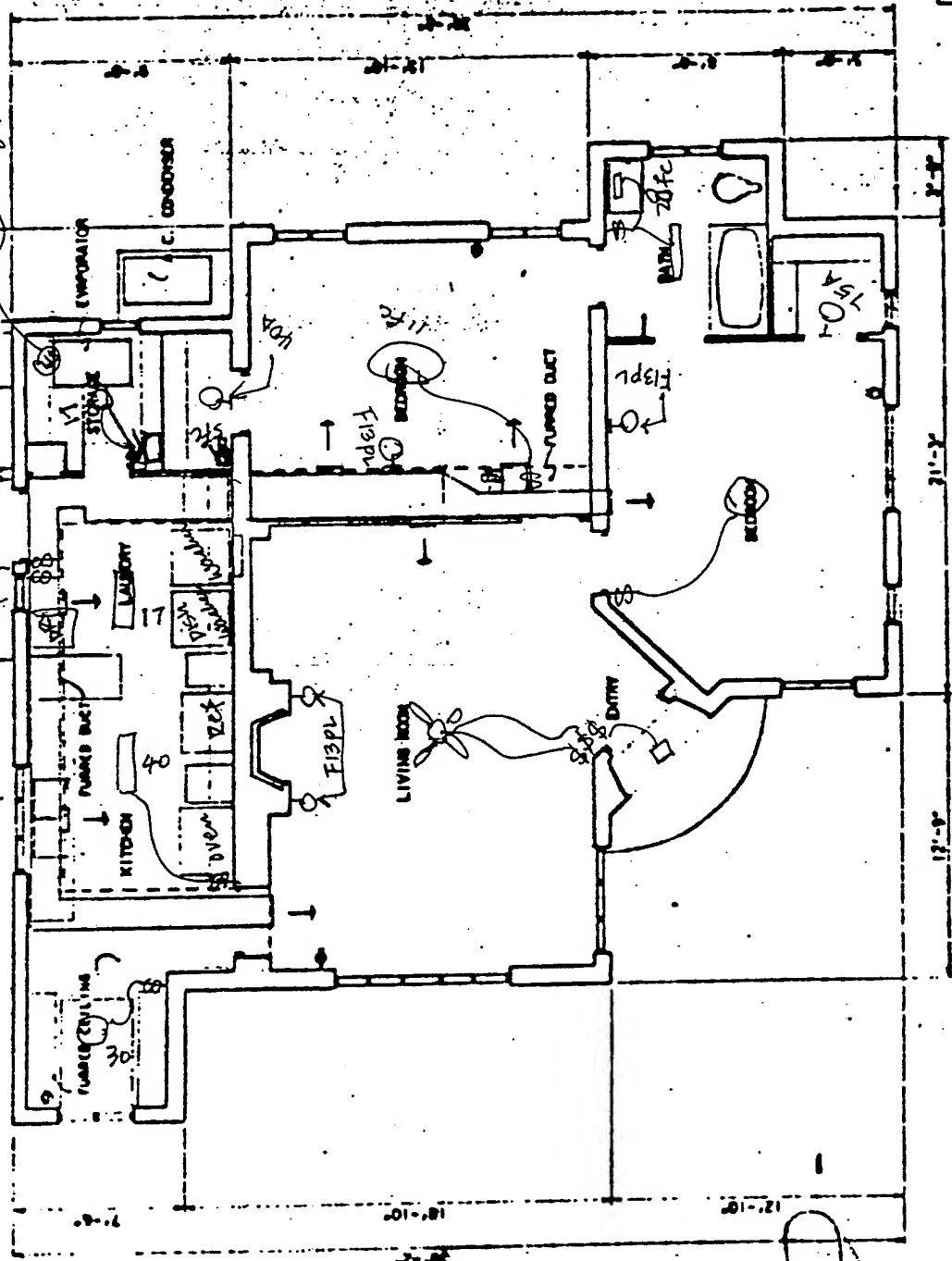
U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN

COMPS OF BUILDINGS

NOV 1973

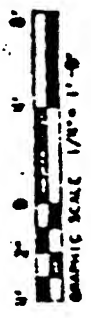
LAC CODE 1210

NOV 1973



FLOOR PLAN

SCALE 1/4" = 1'-0"



Date: 1/8/90
Prepared By: LT

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 56

Building Type: 32-I

Apartment: —

No. Bedrooms: 2

Area: A

Address: —

Telephone No.: —

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: 1 day/person (2 total)

Average No. of Laundry Loads/Week: 3

Average No. of Times Dishwasher Used/Day: —

Remarks: —

—
—
—
—
—
—
—
—

2.0 ARCHITECTURAL

Same as S2

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 117 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: None
Insulation Thickness:

e. Is Hot Water Circulated? no

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

same
as 52

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

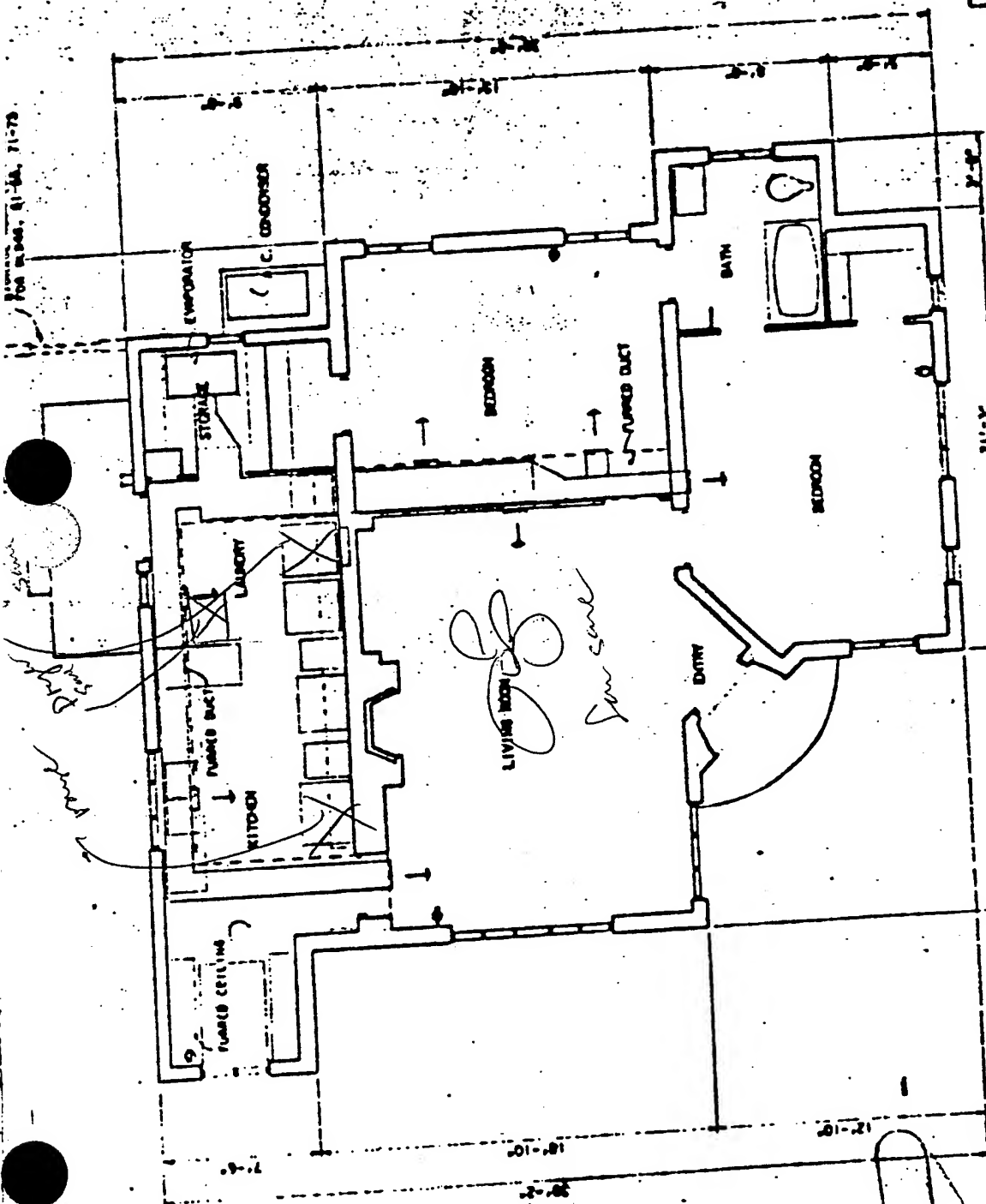
3.3 HW USING APPLIANCES

- a. Dishwasher *none*
 - 1) Mfg/Mdl _____
 - 2) Galons HW/Wash _____
 - 3) Booster Heater Mfg/Mdl _____
 - 4) Heating Source _____
 - 5) Capacity _____
 - 6) Electrical Data _____
- b. Clothes Washer *Sum on TV*
 - 1) Mfg/Mdl _____
 - 2) Setting: Hot _____ Warm _____ Cold _____
 - 3) Gallons HW/Wash _____
 - 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Kit sk.	28/105	117	

FOR 2008, 41-44, 71-73.



FLOOR PLAN
SCALE 1/8" = 1'-0"

GRAPHIC SCALE 1/8" = 1'-0"

REQUIRED	FAMILY HISTORY				
BIBLIOGRAPHY DATA FOR AIR CONTAMINANT PROJECT					
23 NOC FAMILY SCHEDULES					
ALOR PLAN					
SOURCE(S) SUBJECT					
U. S. ARMY DISTILLER DIVISION, PACIFIC OCEAN COMPS OF QUALITY					
NON-ITALY MARCH					
LAC CODE 8290		26	23	07	36

[illegible]

0-1001 3758 514788

३३

३
३४
३५
३६
३७
३८

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

EXHIBIT A-100

SECRETARY DATA FOR THE COMPTON/RESEARCH PROJECT

SECRET, 1960S (E) 11/19/01

U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN
COMPS OF BUILDINGS

HANDY TIP

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1951

Date: 1/8/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 58

Building Type: 32-1

Apartment: —

No. Bedrooms: 2

Area: A

Address: —

Telephone No.: —

Occupied Hours: work every

No. of Occupants: 2

Average No. of Showers/Day: 4 ~~per person~~

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: —

Remarks: —
—
—
—
—
—
—
—
—
—

2.0 ARCHITECTURAL

Same as 52

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

not taken wash just done no HW

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: None
Insulation Thickness: _____

e. Is Hot Water Circulated? No

- 1) Condition of circulator _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- Same as 52*
- a. Location _____
 - b. Areas Served _____
 - c. Manufacturer and Model _____
 - d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
 - e. Type Heaters & Quantities:
 - 1) Storage _____
 - 2) Instantaneous _____
 - 3) Semi-Instantaneous _____
 - f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher *None*

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer *Same as SW*

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Fixture	Flow	Water Temp.	Remarks
Kit SK	21/105	—	

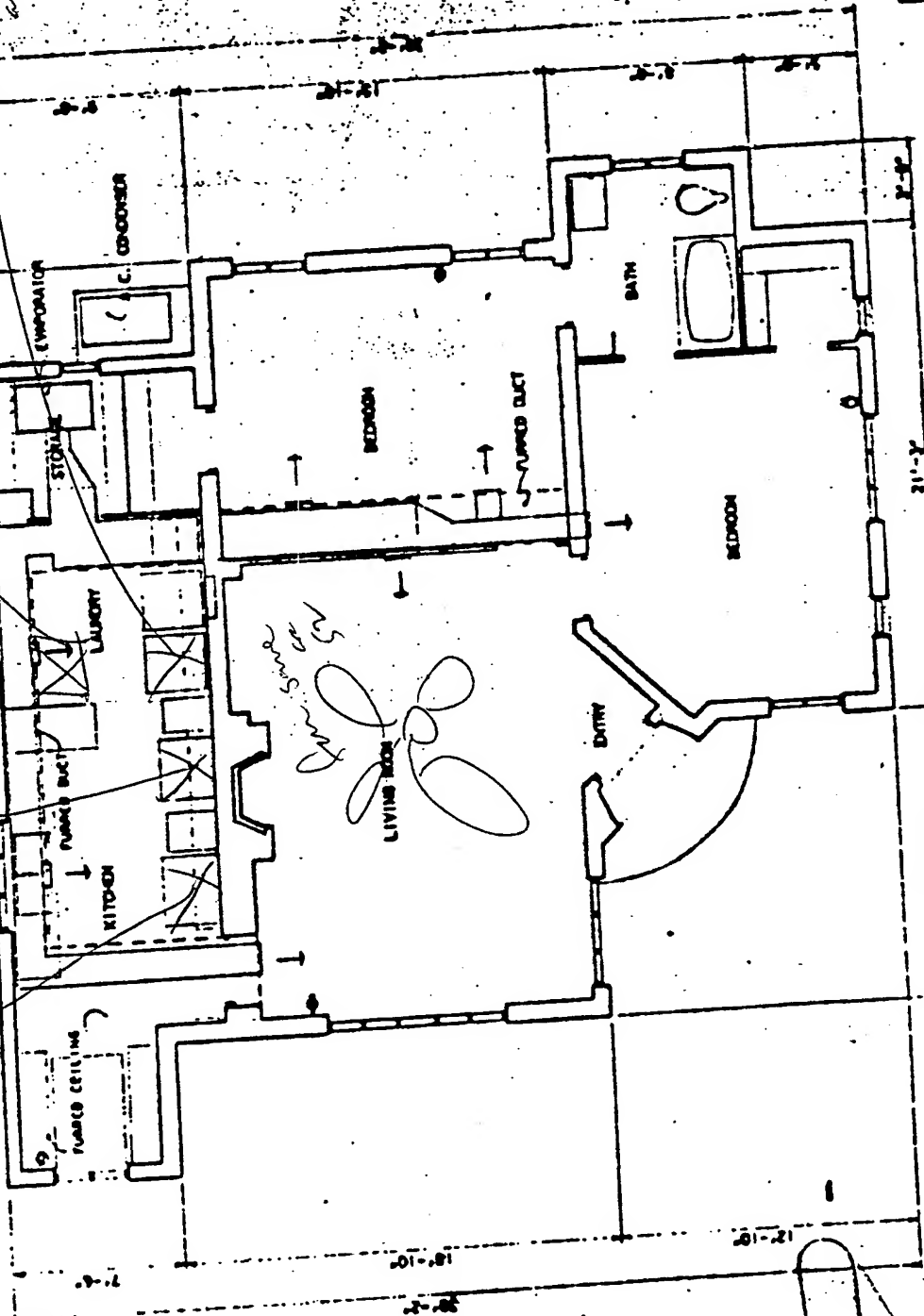
STORAGE ROOM (BUNKER)
FOR M-16, M-14, M-1

Hand
Swamp
W-1-Brown
Chick
C-15-1

Very Heavy Duty
Dryer

Washer, same
as S2

58



BUILDING NUMBERS (in the storage room)

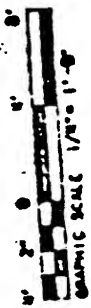
50, 51, 52, 53, 54, 55, 56, 57, 58, 59

BUILDING NUMBERS (in the storage room)

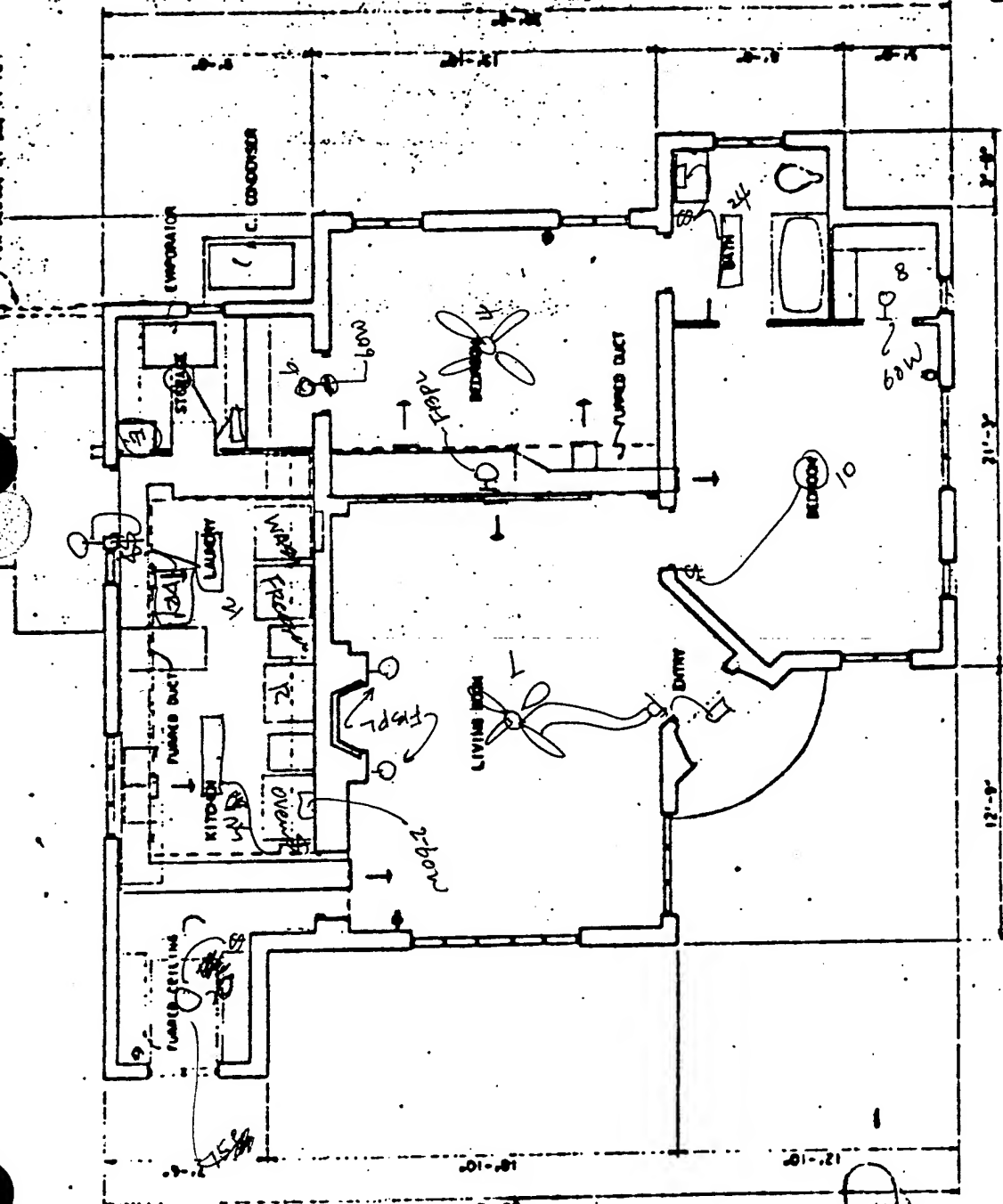
60, 61, 62, 63, 64, 65, 66, 67, 68, 69

SEE SITE PLAN SHEET 59 FOR LOCATION

REVISED	
FAMILY HOUSING	
SUBMITTAL DATA FOR AIR CONDITIONING PROJECT	
23 MOD FAMILY BUNKERS	
FLOOR PLAN	
SCHEDULED BUNKERS	
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN	
CORPS OF ENGINEERS	
HONOLULU, HAWAII	
LOC. CODE 5750	24 25 26 27 28
NOV 1973	



PLEASE READ (PAGES)
FOR NO. 81-58, 71-75



FLOOR PLAN
SCALE 1/4" = 1'-0"



72-1

- BUILDING NUMBERS (with storage room)
- 81. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60.
- BUILDING NUMBERS (with storage room)
- 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80.
- SEE SITE PLAN SHEET 60 FOR LOCATION

| | | | |
|---|--|---|--|
| REVISED | | FAMILY HOUSING | |
| BUDGETARY DATA FOR AIR CONDITIONING PROJECT | | 23 NO. FAMILY BARRACKS | |
| FLOOR PLAN | | AREA | |
| SCHEDULED BARRACKS | | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | CORPS OF ENGINEERS | |
| CORPS OF ENGINEERS | | HONOLULU, HAWAII | |
| LOC. CODE 8299 | | 20 21 22 23 24 | |
| NOV 1971 | | 75 | |

UNIT TYPE 32-II

Date: 1/8/90
Prepared By: CLC

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 61

Building Type: 32 TL

Apartment: —

No. Bedrooms: 2

Area: A

Address: —

Telephone No.: —

Occupied Hours: ~~11:30-2:30~~ 2:30 PM on

No. of Occupants: 3

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: —

Remarks: —
—
—
—
—
—
—
—

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

*Same as type 32-I
only diff. is this unit
has fenced in exterior
storage area*

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

Central Plant One System per Building
Several Small Systems per Building
Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 122 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: None visible
Insulation Thickness:

e. Is Hot Water Circulated? None

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- same as 32-I*
- a. Location
 - b. Areas Served
 - c. Manufacturer and Model
 - d. Energy (Oil, Gas, Electric, Coal, Etc.)
 - e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
 - f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl hond _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

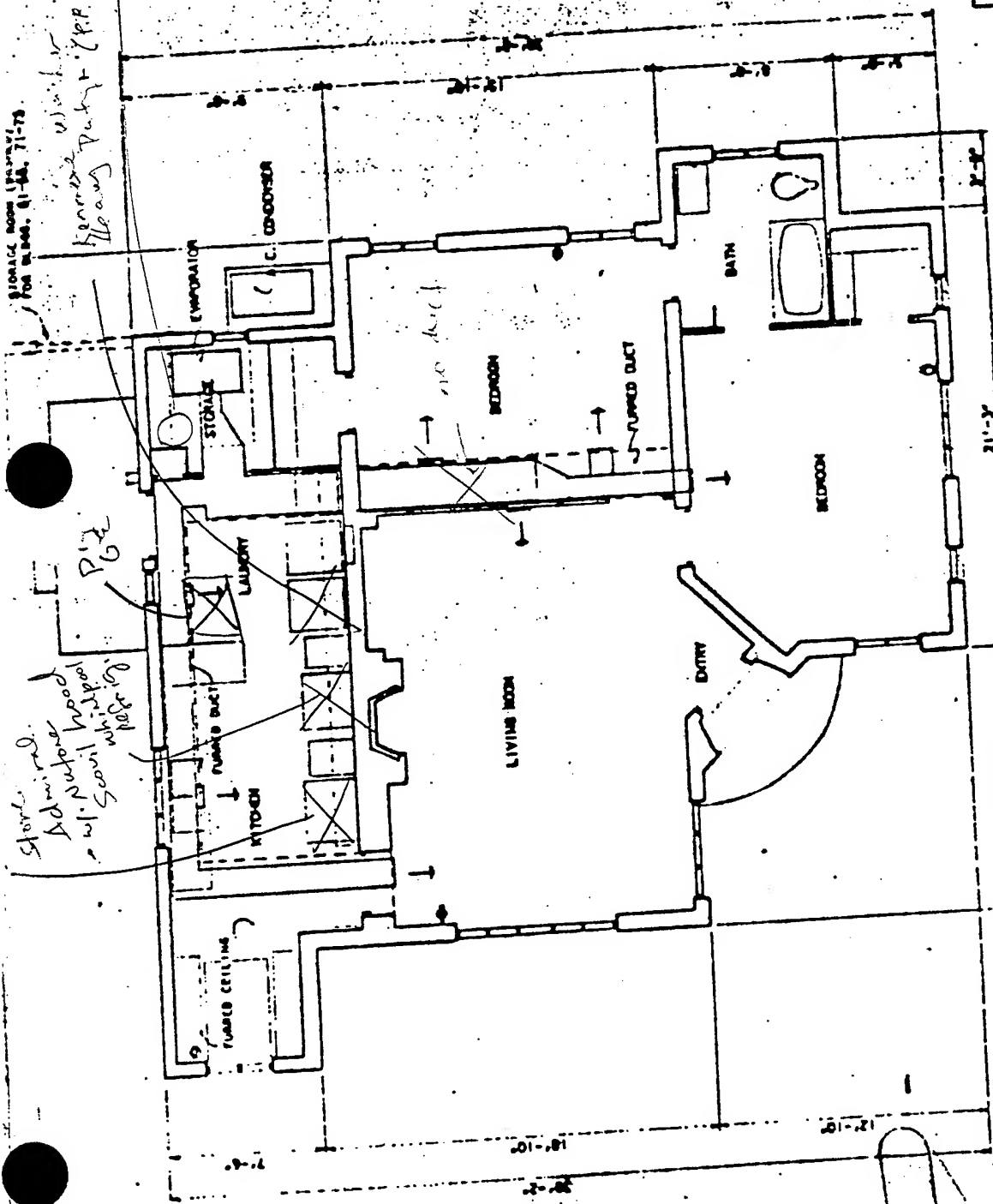
| Fixture | Flow | Water Temp. | Remarks |
|--------------------|-----------------|-------------|---------|
| <u>Waster Sink</u> | <u>42 / 105</u> | <u>122°</u> | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

STORAGE ROOM (REAR)
FOR M. 61-62, 71-72

Storage
Admiral
w/ N. P. Wood
Scovil Wood
Ref. 19

Storage room (rear)
for m. 61-62, 71-72
+ 4000 5-10
EWH

#61



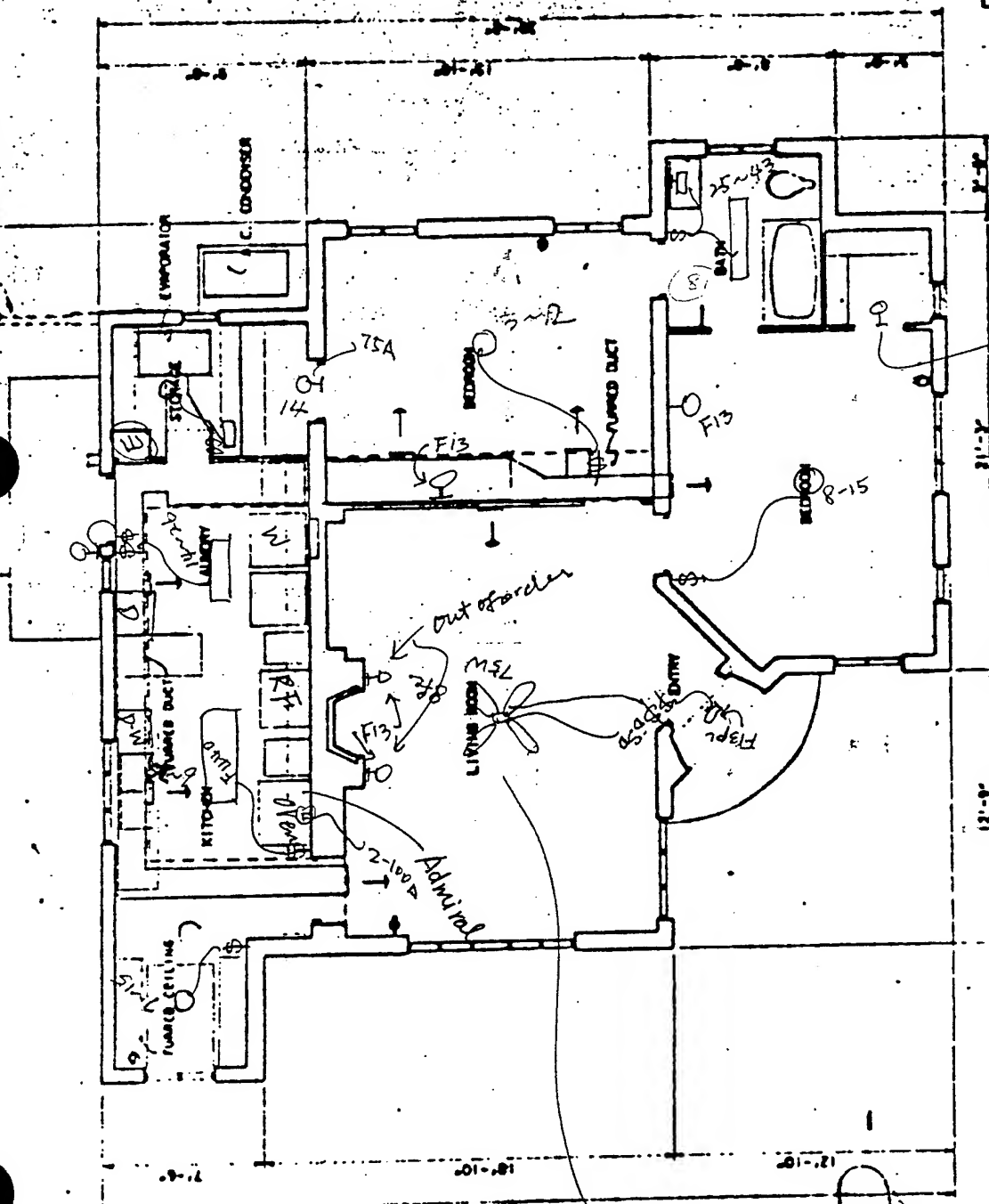
BUILDING NUMBERS (1-1000) (1-1000) (1-1000)
 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
 BUILDING NUMBERS (1-1000) (1-1000) (1-1000)
 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
 SEE SITE PLAN SHEET 60 FOR LOCATION

| | |
|---|--------------|
| ACTIVITIES | |
| FAMILY HOUSE | |
| SUBSTANTIAL DATA FOR LINE COORDINATES PROJECT | |
| 23 NO. 1 FAMILY BARRACKS | |
| FLOOR PLAN | |
| SOUTHFIELD BARRACKS | |
| U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN | |
| CORPS OF ENGINEERS | |
| NO. 100, 100, 100 | |
| LOC. CODE 1000 | 25 23 07 3-4 |



FLOOR PLAN
 SCALE 1/8" = 1'-0"

T-24



very low in every living room.

[illegible]

BUILDING NUMBER (see page 200)

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 61. | 62. | 63. | 64. | 65. | 66. |
| 71. | 72. | 73. | 74. | 75. | |

SEE SITE PLAN SHEET 10 FOR LOCATION

| | | | |
|---------|---|---|----------|
| INVISIB | FAMILY HISTORY | SECRETARY DATA FOR ANO COORDINATING PROJECT | AREA |
| | 23 NOO FAMILY SHIRTTERS | | |
| | FLOOR PLAN | | |
| | SCHEMATIC DRAWINGS | SECRET, SENSITIVE | |
| | U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN | | |
| | COMPS OF BUILDINGS | | |
| | HOUSEHOLD HEALTH | | |
| | | 28 | 23 OF 24 |
| | LAC CODE 8290 | | |

1973

FLOOR PLAN

Date: 1/8/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 604

Building Type: 32-II

Apartment: _____

No. Bedrooms: 2

Area: A

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: ←

Remarks: _____

2.0 ARCHITECTURAL

Same as 32-I

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: No
Insulation Thickness:

e. Is Hot Water Circulated? No

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage Same as 32-1
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
- 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
 h. Type Controls (Air, Steam, Electric) _____
 i. When Installed & Condition _____
 j. Heater Temperature Setting 44
 k. Average Water Maintained Temperature _____
 l. Temperature Differential (j) - (k) _____
 m. Is Hot Water Supply Adequate No
 n. Insulation Thickness None
 o. Insulation Material U
 p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

- a. Dishwasher None

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

- b. Clothes Washer

- 1) Mfg/Mdl Same as S2
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

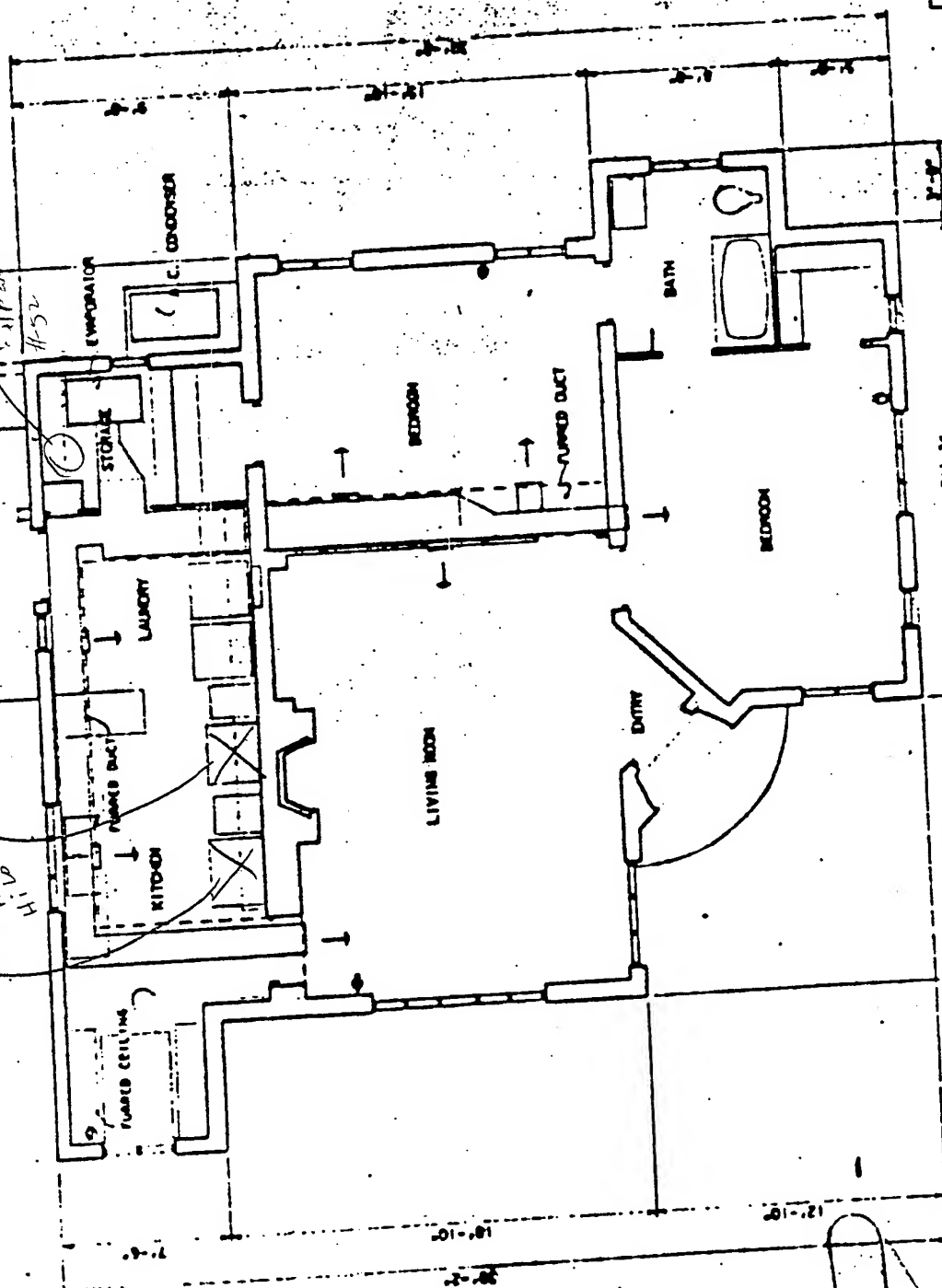
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|------------|--------------------|-------------|---------|
| Waster Tub | <u>4 l in 10 s</u> | <u>122</u> | |
| Shwr | <u>1 l / 10 s</u> | <u>120</u> | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1944-45
44-71-73
John Paul W
same as #52
67

H. S. Hood
H. S. Hood
H. S. Hood

#64 R



FLOOR PLAN
SCALE 1/4" = 1'-0"

PROPERTY

PROPERTY DATA FOR AIR CONDITIONING PROJECT

WILLIAM H. WILSON

| DATE | TIME | LOCATION | REMARKS |
|----------|-------|--------------|--------------|
| 10/10/50 | 11:00 | 1000' (1000) | 1000' (1000) |

U. S. ARMY DISTANCE DIVISION, PACIFIC OCEAN
CHIEF OF DISTANCE DIVISION

HIGH SCHOOL

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

may 1973

GRAPHIC SCALE 1/4" = 1'-0"

Date: 1/8/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 71

Building Type: 32-II

Apartment: _____

No. Bedrooms: _____

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL Day

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 2 per Day

Average No. of Times Dishwasher Used/Day: —

Remarks: _____

2.0 ARCHITECTURAL

same as 32-I

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

Central Plant One System per Building
Several Small Systems per Building
Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 12 °F
°F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness: None

e. Is Hot Water Circulated? No

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- same as 32-I*
- a. Location Storage
 - b. Areas Served
 - c. Manufacturer and Model
 - d. Energy (Oil, Gas, Electric, Coal, Etc.)
 - e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
 - f. Heater Size and Storage Capacity 52 gal.

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|------------|----------|-------------|---------|
| Washer Tub | 4.5/10.5 | 124°F | |
| | | | |
| | | | |
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| | | | |
| | | | |

PLAN FOR ROOMS 61-72, 71-72

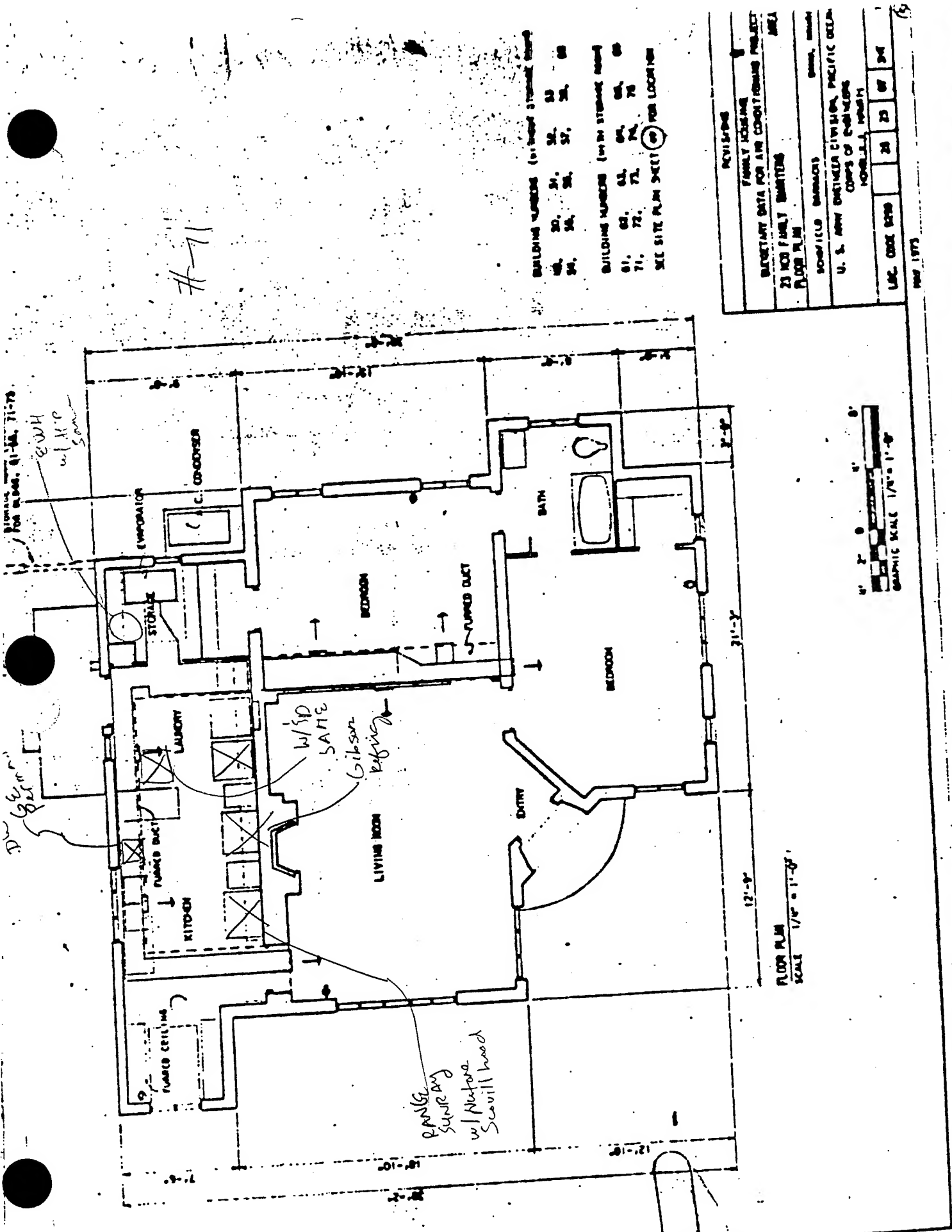
61-72
w/ H.C.
San

61-72
San

61-72
San

61-72
San

61-72
San



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| BUILDING NUMBERS (w/ H.C. STORAGE ROOM) | | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 |
| BUILDING NUMBERS (w/ H.C. STORAGE ROOM) | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

SEE SITE PLAN SHEET 61 FOR LOCATION

REVISIONS

FAMILY HOUSING PROJECT

SECRETARY DATA FOR AIR CONDITIONING PROJECT

23 HOS FAMILY BUILDING

FLOOR PLAN

NOVEMBER 1973

U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN

COMPS OF BUILDINGS

NOVEMBER 1973

LAC. CODE 6240

26 27 28 29 30

GRAPHIC SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

FLOOR PLAN

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

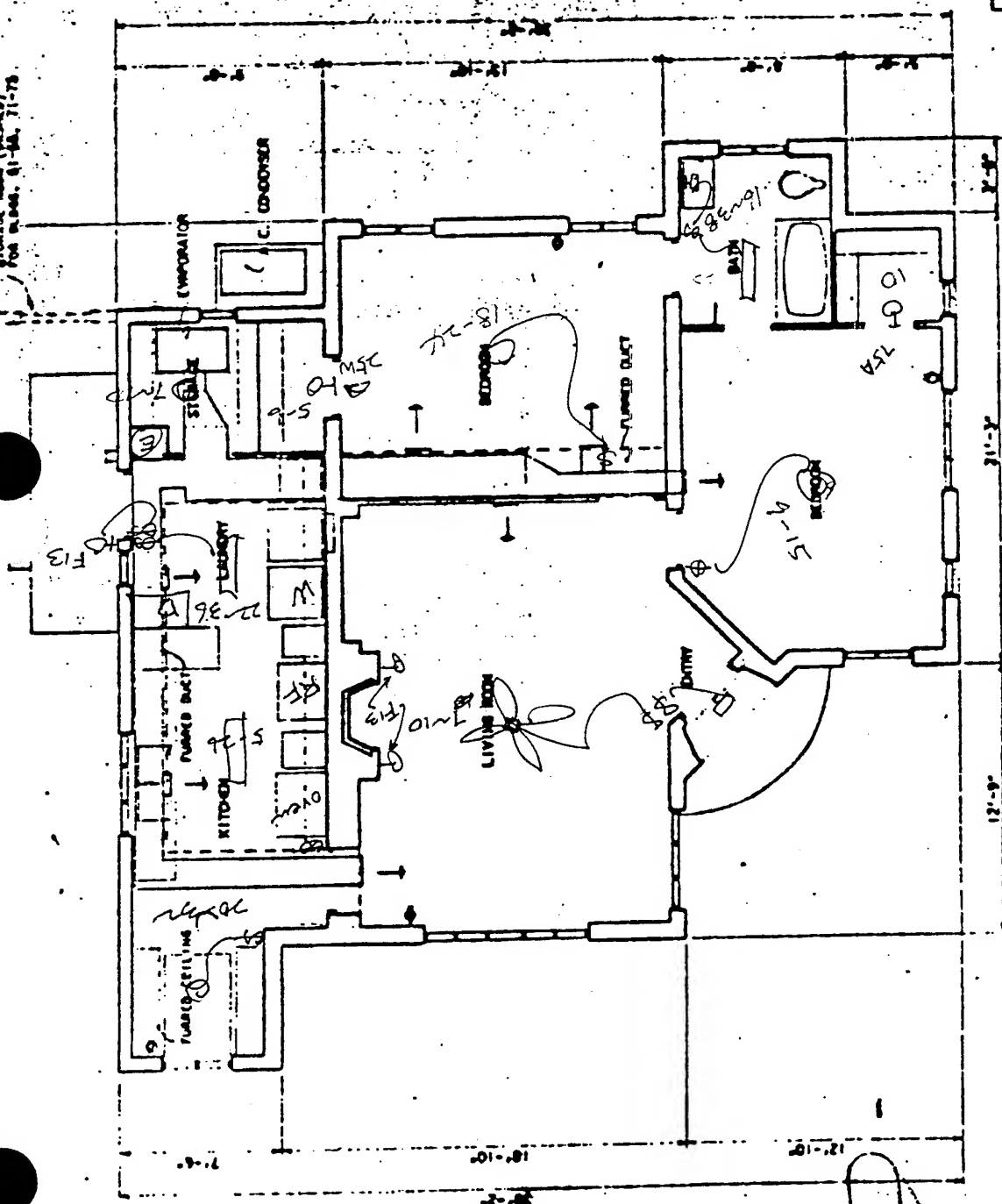
SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

Storage room (HALLS)
For cases 81-82, 71-73



FLOOR PLAN
SCALE 1/8" = 1'-0"



712-1

BUILDING NUMBERS (with street names)

- 20, 24, 26, 28, 30, 32, 34, 36, 38, 40
- 42, 44, 46, 48, 50, 52, 54, 56, 58, 60

BUILDING NUMBERS (with street names)

- 62, 64, 66, 68, 70, 72, 74, 76, 78, 80
- 82, 84, 86, 88, 90, 92, 94, 96, 98, 100

SEE SITE PLAN SHEET 60 FOR LOCATION

REVISED

| | |
|---|-------------|
| FAMILY ROOMING | |
| BUDGETARY DATA FOR AIR CONDITIONING PROJECT | |
| 23 NO. FAMILY BUDGETING | |
| FLOOR PLAN | |
| POWER/CLUB BUDGETING | |
| U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN | |
| CHIEF OF BUILDINGS | |
| MOBILE, ALABAMA | |
| LAC. CODE 1279 | 25 26 27 28 |

1973

Date: 1/8/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 72

Building Type: 32 II

Apartment: _____

No. Bedrooms: 2

Area: A

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: —

Remarks: _____

2.0 ARCHITECTURAL

Same as 32-I

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as 32-I

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

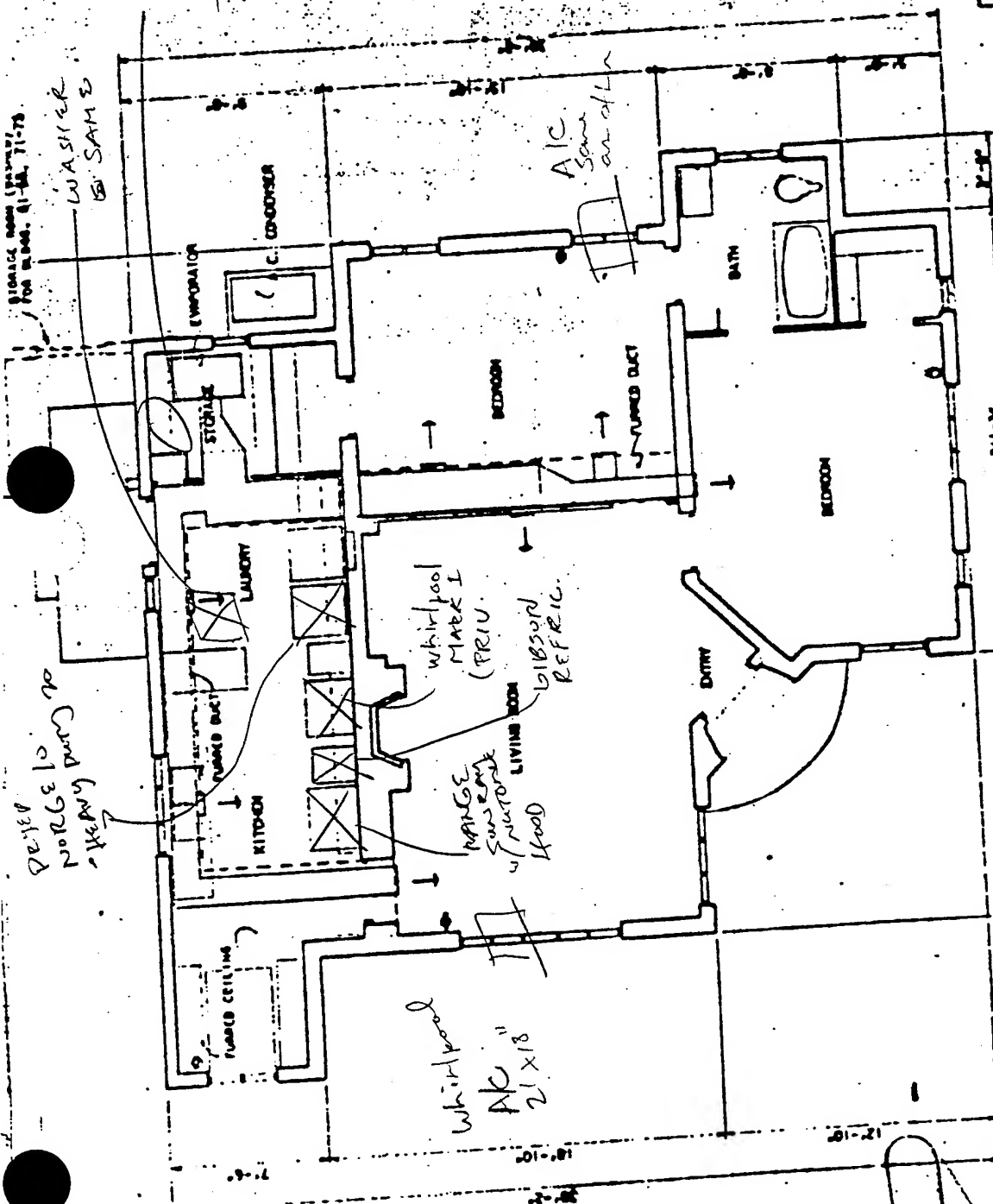
b. Clothes Washer

- 1) Mfg/Mdl SAME AS UNIT 61 _____
- 2) Setting: Hot _____ Warm ☒ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|------------|--------|-------------|---------|
| WASHER TUB | 42/105 | 138°F | |
| | | | |
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| | | | |

WASHER
B. SAM E


$$\frac{1000 \text{ MJ}}{\text{sec}} = 1.7 \times 10^6 \text{ J}$$

SECRET 1/10/10

| | | |
|---|----------------|--------------|
| NOV 1976 | FAMILY HISTORY | 1 |
| BIOGRAPHY DATA FOR AN CONTINUOUS PROJECT | | |
| 23 NO FAMILY SUMMIT | AREA | |
| FLOOR PLAN | | |
| NOVELLS | BRANCHES | GENS, BRANCH |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | |
| COMPS OF REGULATIONS | | |
| NOV 1976 | | |
| LOC. CODE 1200 | 28 | 25 07 34 |

1971

BUILDING NUMBERS (11' HIGH STANDARD SHEET)

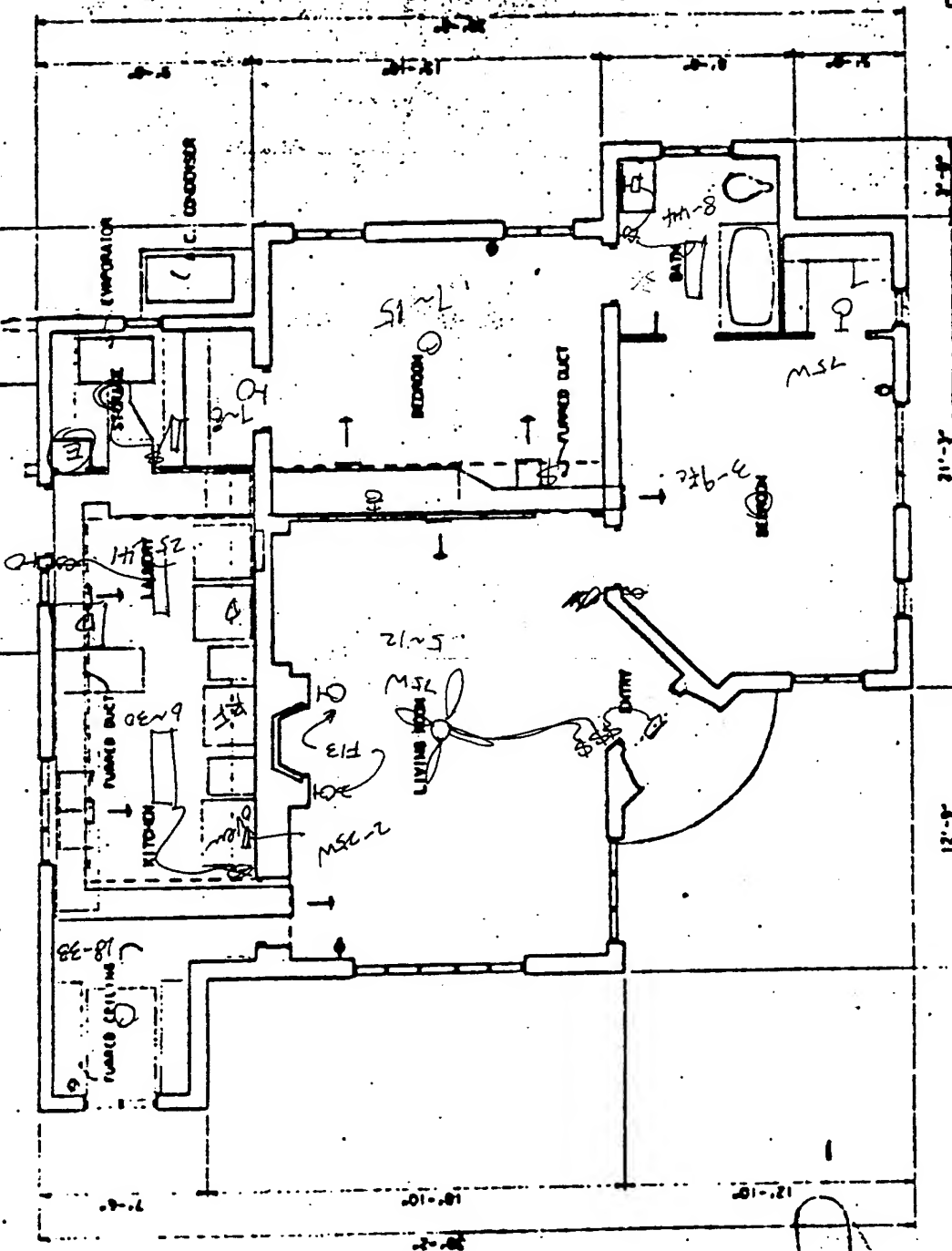
| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 61. | 62. | 63. | 64. | 65. | 66. |
| 71. | 72. | 73. | 74. | 75. | 76. |

SEE SITE PLAN SHEET 60 FOR LOCATION

BUILDING NUMBERS (10' IN STANDARD SHEET)

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 61. | 62. | 63. | 64. | 65. | 66. |
| 71. | 72. | 73. | 74. | 75. | 76. |

STORAGE ROOM (PLANNED)
FOR M.B. 81-56, 71-75



FLOOR PLAN
SCALE 1/4" = 1'-0"



32-1

BUILDING NUMBERS (see sheet 32-1)
81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
SEE SITE PLAN SHEET 32-1 FOR LOCATION

| REVISIONS | |
|---|-------------|
| FAMILY HOUSING | |
| BASIC DATA FOR THE CONSTRUCTION PROJECT | |
| 23 NO. FAMILY BARRACKS | |
| FLOOR PLAN | |
| NO. OF FLOOR BARRACKS | |
| U. S. ARMY DISTRICT DIVISION, PACIFIC OCEAN | |
| CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |
| LAC. CODE 8280 | 25 23 OF 34 |
| NOV 1973 | |

UNIT TYPE 32-III

Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 607

Building Type: 32-111

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 17

Average No. of Times Dishwasher Used/Day: 3x Weeks

Remarks: _____

2.0 ARCHITECTURAL

No Crawl space, under house

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Asphalt Shingles _____

Wood Deck _____

Conc. Ceiling _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 130 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: Visible piping not
Insulation Thickness: 0

e. Is Hot Water Circulated? No

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage
- b. Areas Served All
- c. Manufacturer and Model Hunt FSC-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities:
 - 1) Storage ✓
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 106 gal

- g. Heating Capacity 2250 W
h. Type Controls (Air, Steam, Electric) ✓
i. When Installed & Condition Good
j. Heater Temperature Setting _____
k. Average Water Maintained Temperature _____
l. Temperature Differential (j) - (k) _____
m. Is Hot Water Supply Adequate _____
n. Insulation Thickness _____
o. Insulation Material _____
p. Timeclock and Hrs Set N°

3.3 HW USING APPLIANCES

see sketch

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------------------------|--------|-------------|---------|
| Haid's Bath
Shower Head | 22/10s | 130°F | |
| Laundry Tub | 22/10s | 130°F | |
| Hall Bath. LAV. | 22/10s | 124°F | |
| | | | |
| | | | |
| | | | |
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| | | | |

Piping Insul. w/ 1"
Kiehl's Vg (Susp. portions, part
on webbed part)

219

5/11/23
Hm3

11/11/14

[illegible]

29

10

1

11. 12. 13.

10

Dr. J. H. H. H. H.

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Type 32-IV

1

Type. 32-III.

Deputy Secretary

100. 100. 100. 100.

ॐ नमो भगवते वासुदेवाय
ॐ नमो भगवते वासुदेवाय
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13

17706 MAY 24 1964

POWELL

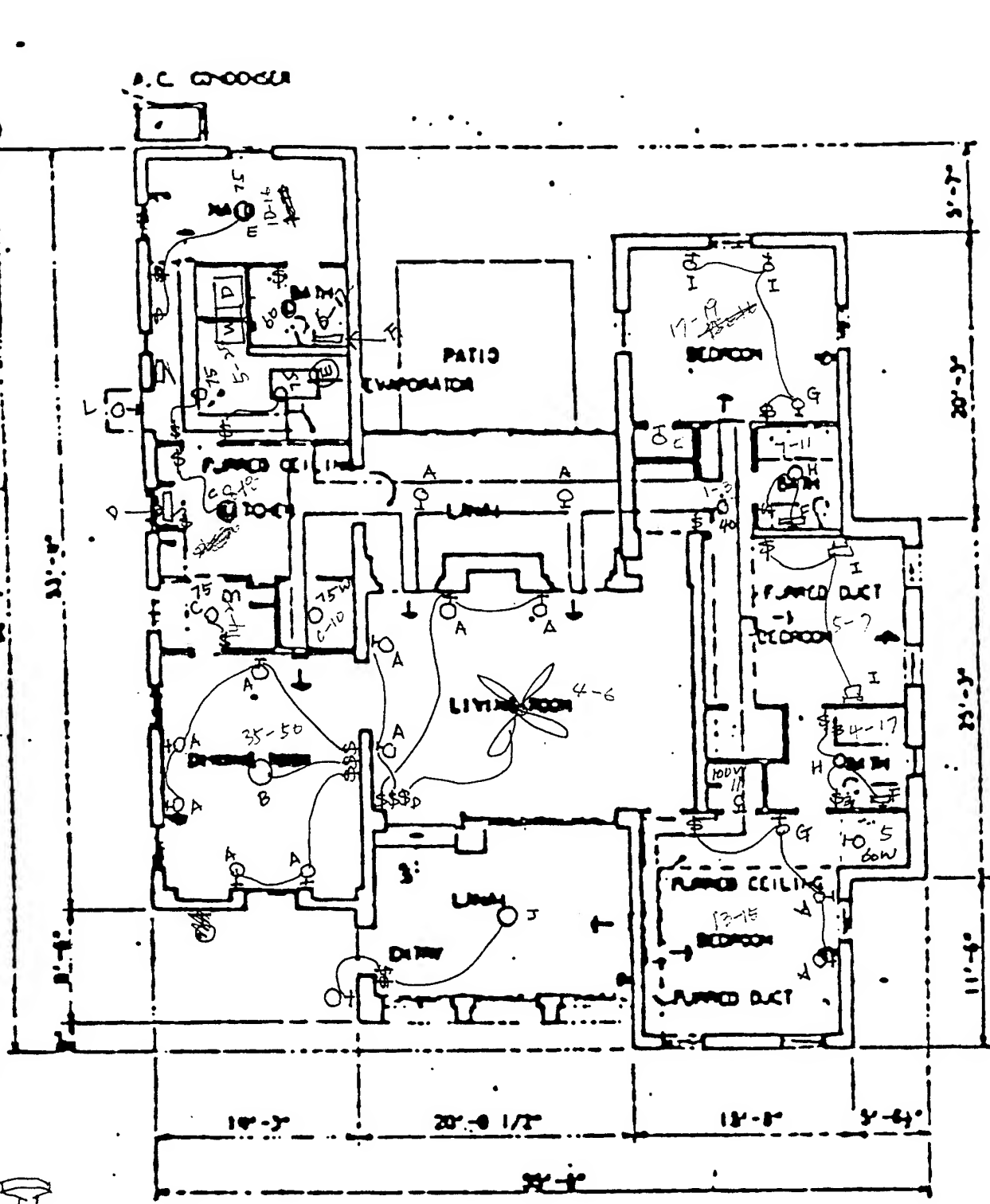
1911

[illegible]

10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044

U. S. ARMY ENGINEERING DIVISION, ARMY
ENGINEERING CENTER

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FLOOR PLAN - 3 BR
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

| | | | | |
|------|------|------|------|------|
| 001. | 003. | 005. | 007. | 009. |
| 011. | 013. | 015. | 017. | 019. |
| 021. | 023. | 025. | 027. | 029. |
| 031. | 033. | 035. | 037. | 039. |
| 041. | 043. | 045. | 047. | 049. |
| 051. | 053. | 055. | 057. | 059. |
| 061. | 063. | 065. | 067. | 069. |
| 071. | 073. | 075. | 077. | 079. |
| 081. | 083. | 085. | 087. | 089. |
| 091. | 093. | 095. | 097. | 099. |

Type. 32 - III

607

SEE 34 RE PLAN SHEET ① FOR LOCATION

BUILDING NO.
001, 002,
010, 012.

Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 611

Building Type: 32-111

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all day

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 6-7

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

same as 607

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|--------------------|----------|-------------|---------|
| Kit. Sink | 2.5l/10s | 128F | |
| Haid's Room Shower | 2.5l/10s | 122F | |
| | | | |
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| | | | |
| | | | |

Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 627

Building Type: 32-111

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 3pm

No. of Occupants: 2

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 2

Average No. of Times Dishwasher Used/Day: every other Day

Remarks: _____

2.0 ARCHITECTURAL

Construction

same as 607

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Yes _____ No _____

Tinted

Reflective Coating

same as 607

same as 601

- a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

_____ Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

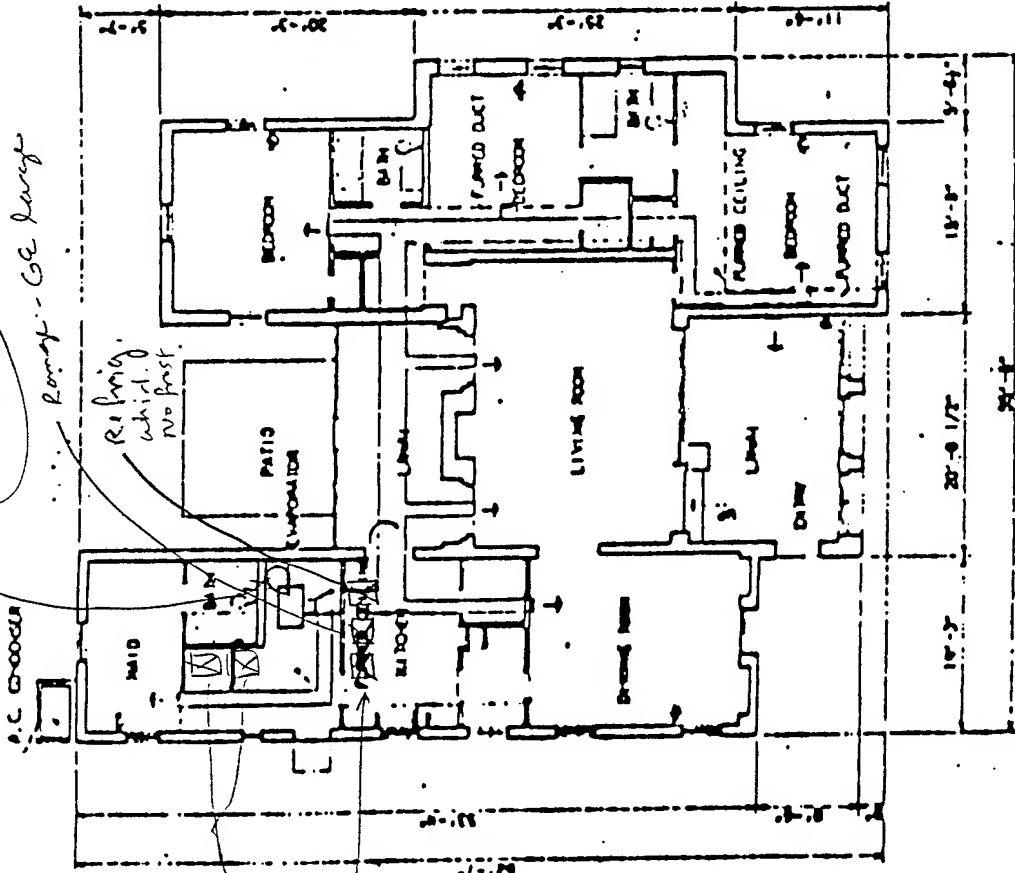
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit sk | 12/10s | | |
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| | | | |

with white
Type, GC gals

#627

Range - GE large



FLOOR PLAN - 3 BR
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

SEE SITE PLAN SHEET (12) FOR LOCATION

Type 32-III

BUILDING NUMBERS
601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

BUILDING NUMBERS
601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Type 32-IV

REVISIONS
FAMILY HOUSING
SOUTHERN BUREAU FOR AIR CONDITIONING
OFFICE BUILDING 300' x 110' (110' x 300')
FLOOR PLAN
U. S. ARMY ENGINEERING DIVISION, PACIFIC REGION
CORPS OF ENGINEERS

REVISIONS
FAMILY HOUSING
SOUTHERN BUREAU FOR AIR CONDITIONING
OFFICE BUILDING 300' x 110' (110' x 300')
FLOOR PLAN
U. S. ARMY ENGINEERING DIVISION, PACIFIC REGION
CORPS OF ENGINEERS

Date: 1/10/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 631

Building Type: 32-111

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all day

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 8

Average No. of Times Dishwasher Used/Day: 2 or 3 days

Remarks: _____

2.0 ARCHITECTURAL

Same as 6.7

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as 607

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

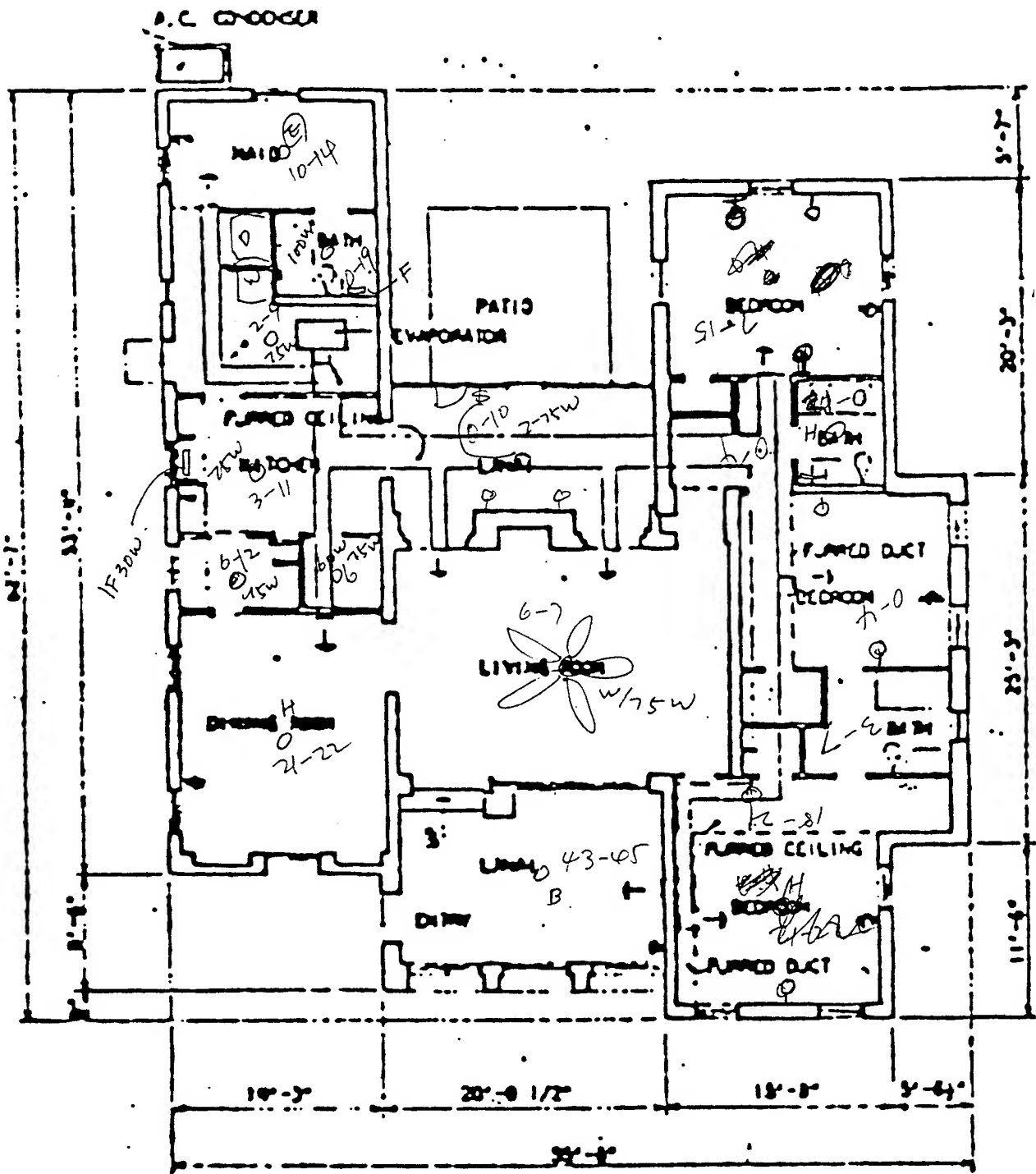
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|--------------------|--------|-------------|---------------------|
| Kit SK | 22/10s | 130°F | |
| Maid's Room Shower | 12/10s | 128F | Shower message head |
| | | | |
| | | | |
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COPIES OF THE REPORT
FORWARDED TO THE



FLOOR PLAN - 3RD
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

| | | | | |
|------|------|------|------|------|
| 001. | 003. | 005. | 007. | 009. |
| 011. | 013. | 015. | 017. | 019. |
| 021. | 023. | 025. | 027. | 029. |
| 031. | 033. | 035. | 037. | 039. |
| 041. | 043. | 045. | 047. | 049. |
| 051. | 053. | 055. | 057. | 059. |

SEE SITE PLAN SHEET (A) FOR LOCATION

Type. 32-III

BUILDING NO.

| | |
|------|------|
| 008. | 009. |
| 010. | 012. |

UNIT TYPE 32-IV

Date: 11/11/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 602

Building Type: 32 - IV

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 5

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 15

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

conc wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

conc. (some masonry)

plaster (some)

wood

asphalt shingles

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 116 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: Visible piping has abv. ground
Insulation Thickness: ins.

e. Is Hot Water Circulated? No

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Storage
- b. Areas Served Confin. House
- c. Manufacturer and Model Hayt FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities:
 - 1) Storage ✓
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 1.6 gal.

- g. Heating Capacity 2750 W
h. Type Controls (Air, Steam, Electric) 2
i. When Installed & Condition _____
j. Heater Temperature Setting _____
k. Average Water Maintained Temperature _____
l. Temperature Differential (j) - (k) _____
m. Is Hot Water Supply Adequate _____
n. Insulation Thickness _____
o. Insulation Material _____
p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
2) Galons HW/Wash _____
3) Booster Heater Mfg/Mdl _____
4) Heating Source _____
5) Capacity _____
6) Electrical Data _____

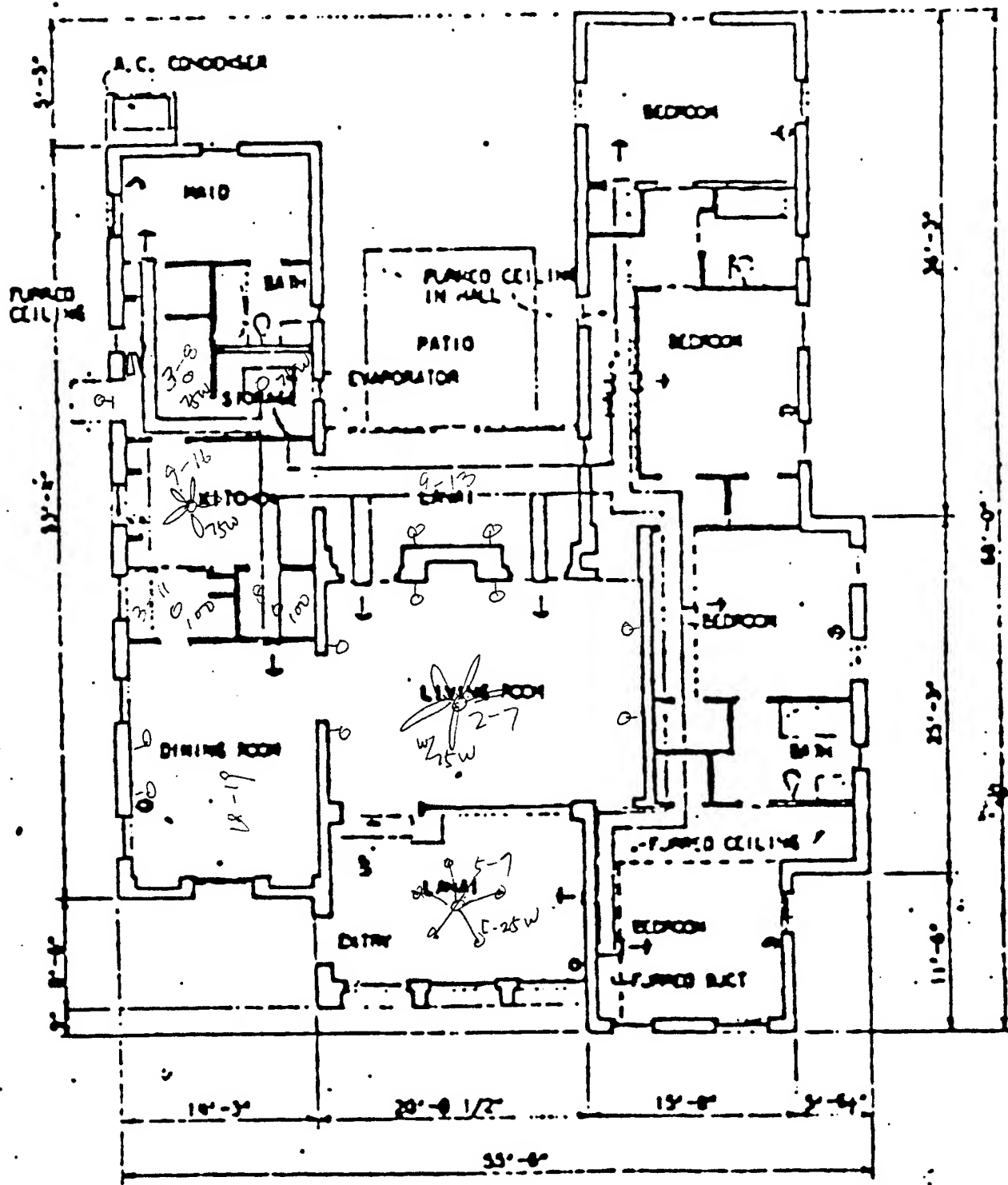
b. Clothes Washer

- 1) Mfg/Mdl _____
2) Setting: Hot _____ Warm _____ Cold _____
3) Gallons HW/Wash _____
4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------------|--------|-------------|---------|
| Laundry Tub SK | 42/105 | 116 | |
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| <p> 1. <u>NAME</u>
 2. <u>AGE</u>
 3. <u>SEX</u>
 4. <u>DATE OF BIRTH</u>
 5. <u>DATE OF DEATH</u>
 6. <u>PLACE OF BIRTH</u>
 7. <u>PLACE OF DEATH</u>
 8. <u>CAUSE OF DEATH</u>
 9. <u>DATE OF BURIAL</u>
 10. <u>PLACE OF BURIAL</u>
 11. <u>DATE OF CREMATION</u>
 12. <u>PLACE OF CREMATION</u>
 13. <u>DATE OF INTERMENT</u>
 14. <u>PLACE OF INTERMENT</u>
 15. <u>DATE OF EXHUMATION</u>
 16. <u>PLACE OF EXHUMATION</u>
 17. <u>DATE OF REINTERMENT</u>
 18. <u>PLACE OF REINTERMENT</u>
 19. <u>DATE OF REINTERMENT</u>
 20. <u>PLACE OF REINTERMENT</u> </p> | <p> 1. <u>NAME</u>
 2. <u>AGE</u>
 3. <u>SEX</u>
 4. <u>DATE OF BIRTH</u>
 5. <u>DATE OF DEATH</u>
 6. <u>PLACE OF BIRTH</u>
 7. <u>PLACE OF DEATH</u>
 8. <u>CAUSE OF DEATH</u>
 9. <u>DATE OF BURIAL</u>
 10. <u>PLACE OF BURIAL</u>
 11. <u>DATE OF CREMATION</u>
 12. <u>PLACE OF CREMATION</u>
 13. <u>DATE OF INTERMENT</u>
 14. <u>PLACE OF INTERMENT</u>
 15. <u>DATE OF EXHUMATION</u>
 16. <u>PLACE OF EXHUMATION</u>
 17. <u>DATE OF REINTERMENT</u>
 18. <u>PLACE OF REINTERMENT</u>
 19. <u>DATE OF REINTERMENT</u>
 20. <u>PLACE OF REINTERMENT</u> </p> |
|--|--|



FLOOR PLAN - 1st FLOOR
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

601, 602, 603, 604, 605
610, 612, 620, 633

Type 32-IV

REVISIONS

FAMILY HOUSING
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS

OFFICE QUARTERS 200725 115201

AREA 7

Date: 1/11/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 604

Building Type: 32-IV

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 5

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 15

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 6-2

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

same as 602

a. Is System Supported from (check one):

_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

e. Type Heaters & Quantities:

- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

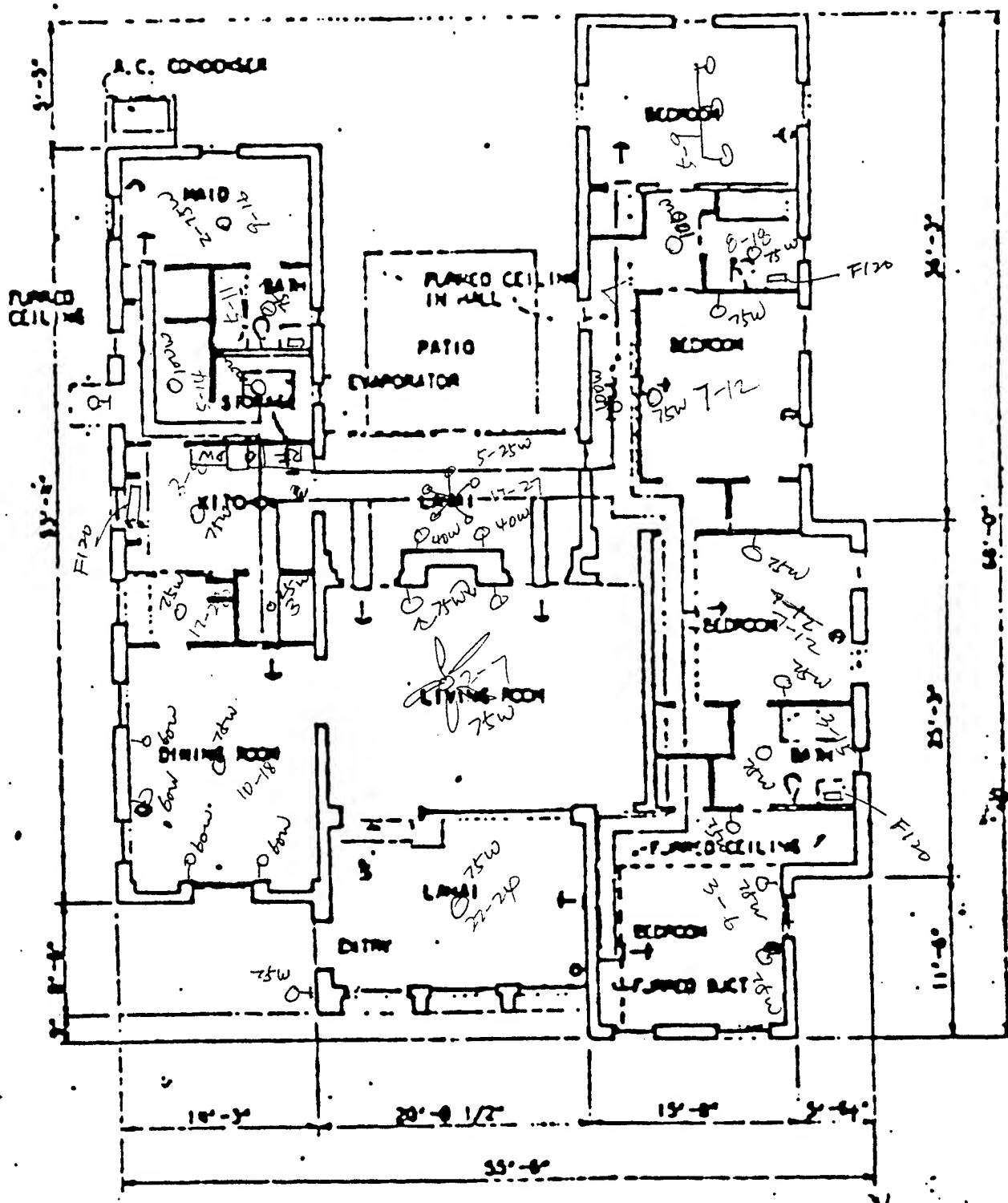
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------------|--------|-------------|---------|
| Laundry Tub SK | 3l/10s | 128 F | |
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FLOOR PLAN - 1st
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

608, 609, 610, 611, 612
613, 614, 615, 616

Type 32-IV

REVISIONS

FAMILY HOUSING
BUDGETARY DATA FOR AIR CONDITIONING PROJECTS

OFFICE BUILDINGS 100000 (115201)

AREA 7

Date: 1/11/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 606

Building Type: 32-IV

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 3

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 602

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating /

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

same as 6.2.

- a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

_____ Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

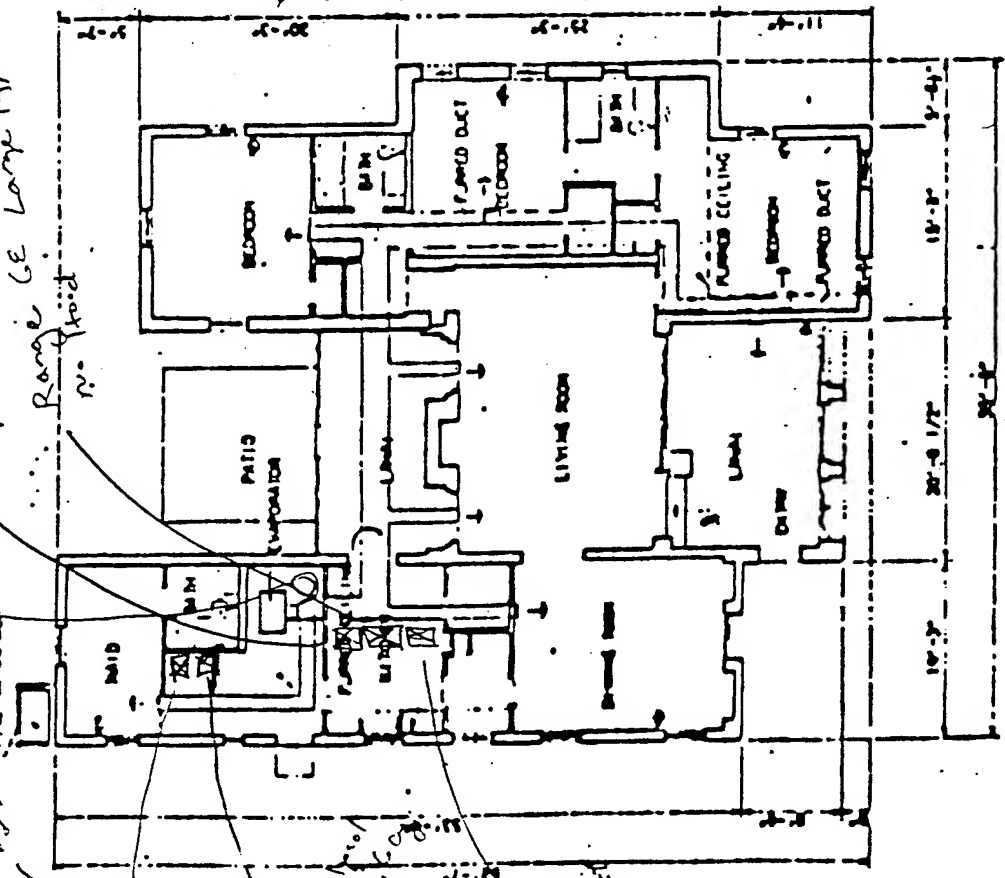
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------------|--------|-------------|---------|
| Laundry Tub Sk | 32/105 | 112 F | |
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Whirl. 5SP, 3 ton
Dysr. A.C. COOLERS
CWH w/ HP
6C80 D/W
Typ.
Range GE Large Typ
No. 1000



FLOOR PLAN - 3 III
SCALE 1/8" = 1'-0"

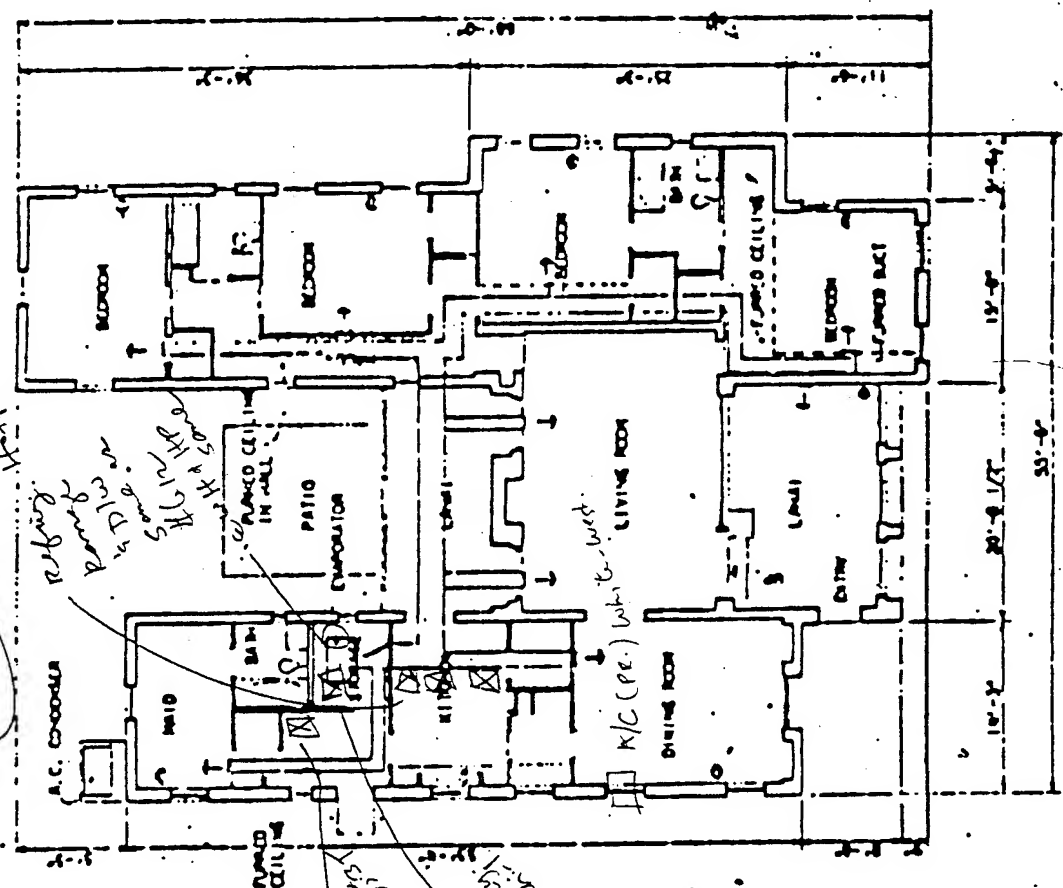
BUILDING NUMBERS

- 604, 605, 606, 607, 608
- 611, 612, 613, 614, 615
- 616, 617, 618, 619, 620
- 621, 622, 623, 624, 625
- 626, 627, 628, 629, 630

SEE DRAWING SHEET 12 FOR LOCATION

Type 32-III

#608



FLOOR PLAN - 3 IV
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

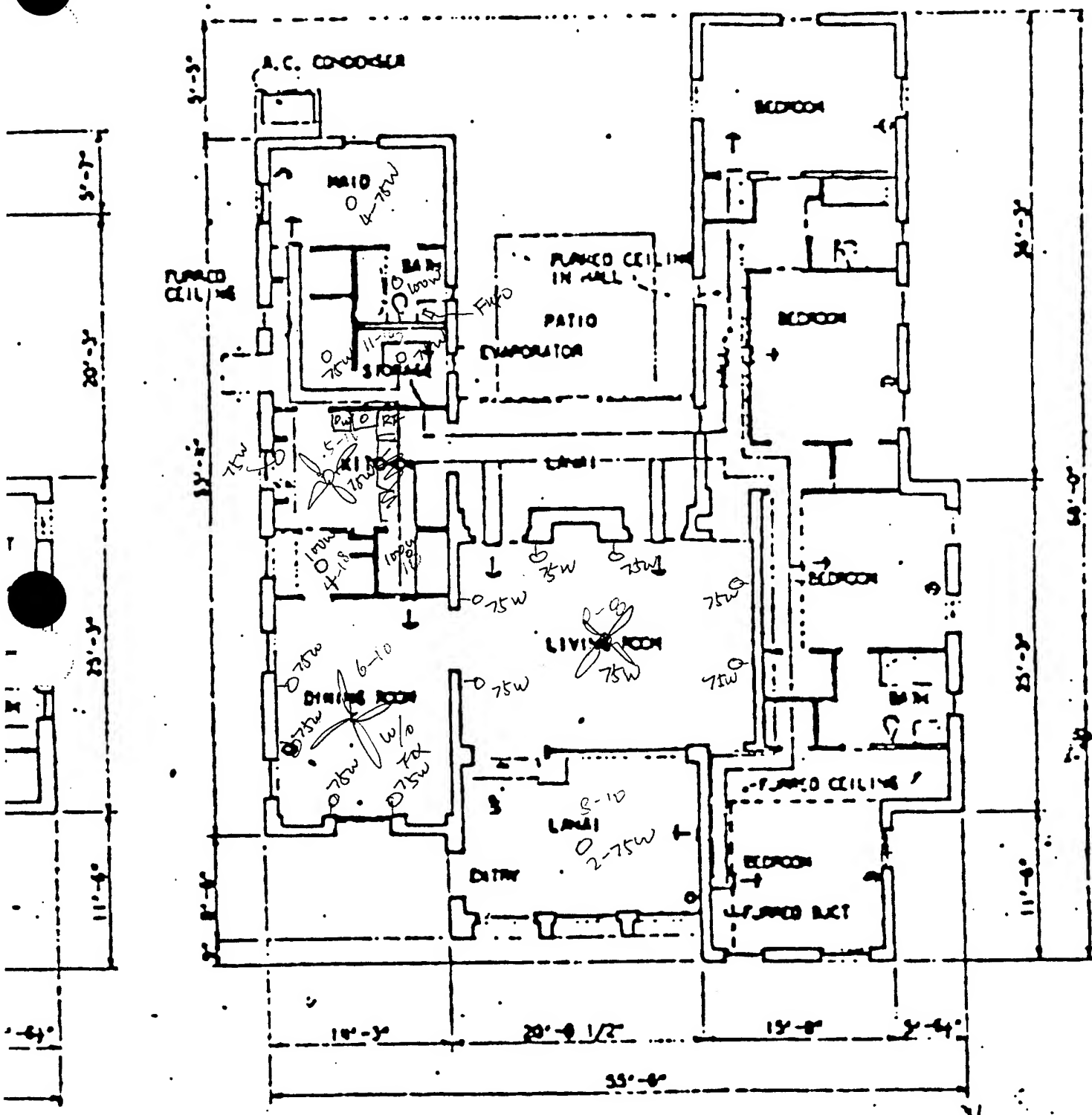
- 604, 605, 606, 607, 608
- 611, 612, 613, 614, 615
- 616, 617, 618, 619, 620
- 621, 622, 623, 624, 625
- 626, 627, 628, 629, 630

SEE DRAWING SHEET 12 FOR LOCATION

Type 32-IV

| REVISIONS | |
|-----------|----------|
| 1 | REVISION |
| 2 | REVISION |
| 3 | REVISION |
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| 97 | REVISION |
| 98 | REVISION |
| 99 | REVISION |
| 100 | REVISION |

U. S. NAVY ENGINEERING DIVISION, PACIFIC OCEAN
OFFICE OF ENGINEERING



FLOOR PLAN - 1st
SCALE 1/8" = 1'-0"

BUILDING NUMBERS

601, 602, 603, 604, 605
610, 612, 613, 614

Type 32-IV

REVISIONS

FAMILY HOUSING

BLOOMINGDALE DATA FOR AIR CONDITIONING PROJECTS

OFFICE BUILDING 200711 (11/2/61)

AREA 1

Date: 1/11/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 610

Building Type: 32-1V

Apartment: _____

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 3 pm

No. of Occupants: 6

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 9

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

same as 602

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. (some rooms)

plaster (some)

wood

asphalt shingles

Inside Film _____

Total

U-Factor _____ Area

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

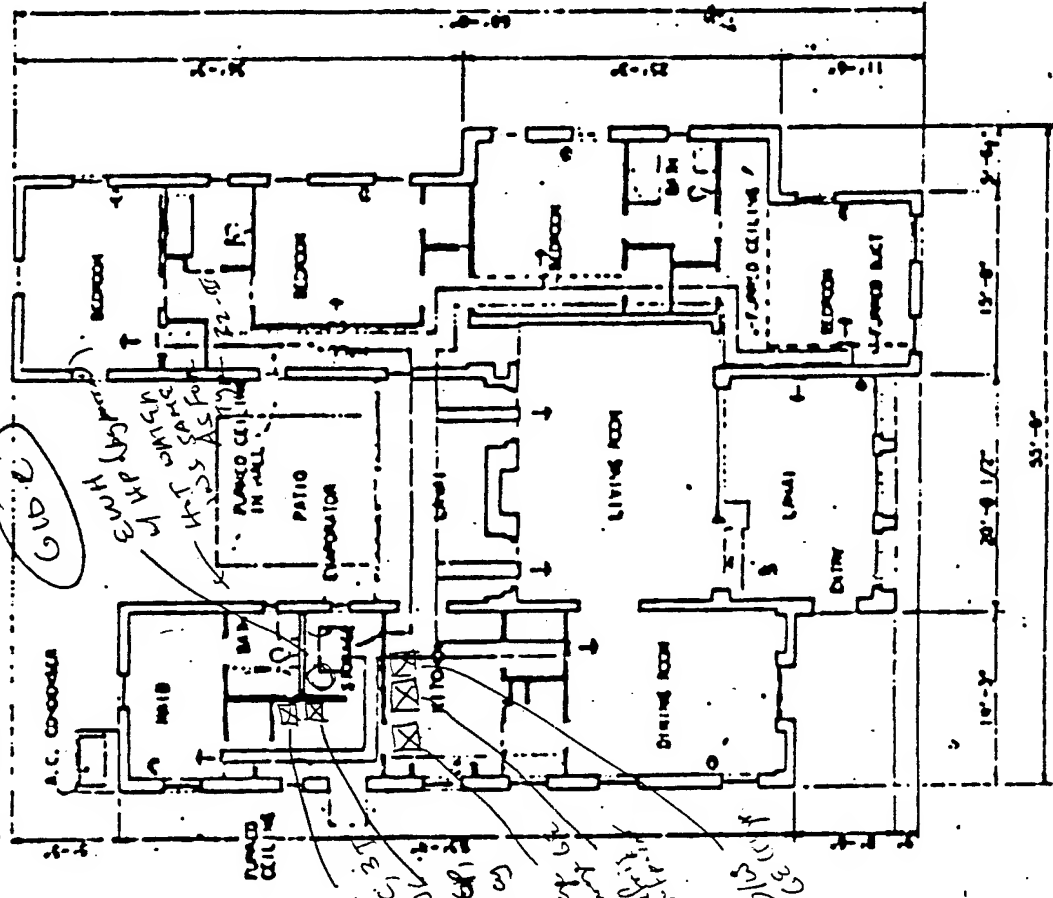
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------------|--------|-------------|---------|
| Laundry Tub sk | 32/105 | 118 F | |
| Maids Room Shower | 12/105 | 112 F | |
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Piping instal. w/11
 kitchen (susp. partitions, part
 on well not)

607 R
 with w/HP (type)
 cant and size (P)
 Refrig. Whirl Series
 RANGE 36" LAR 41x21
 No wood



FLOOR PLAN - 1/4" = 1'-0"

BUILDING NUMBER

601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Type 32-III

FLOOR PLAN - 1/4" = 1'-0"

BUILDING NUMBER

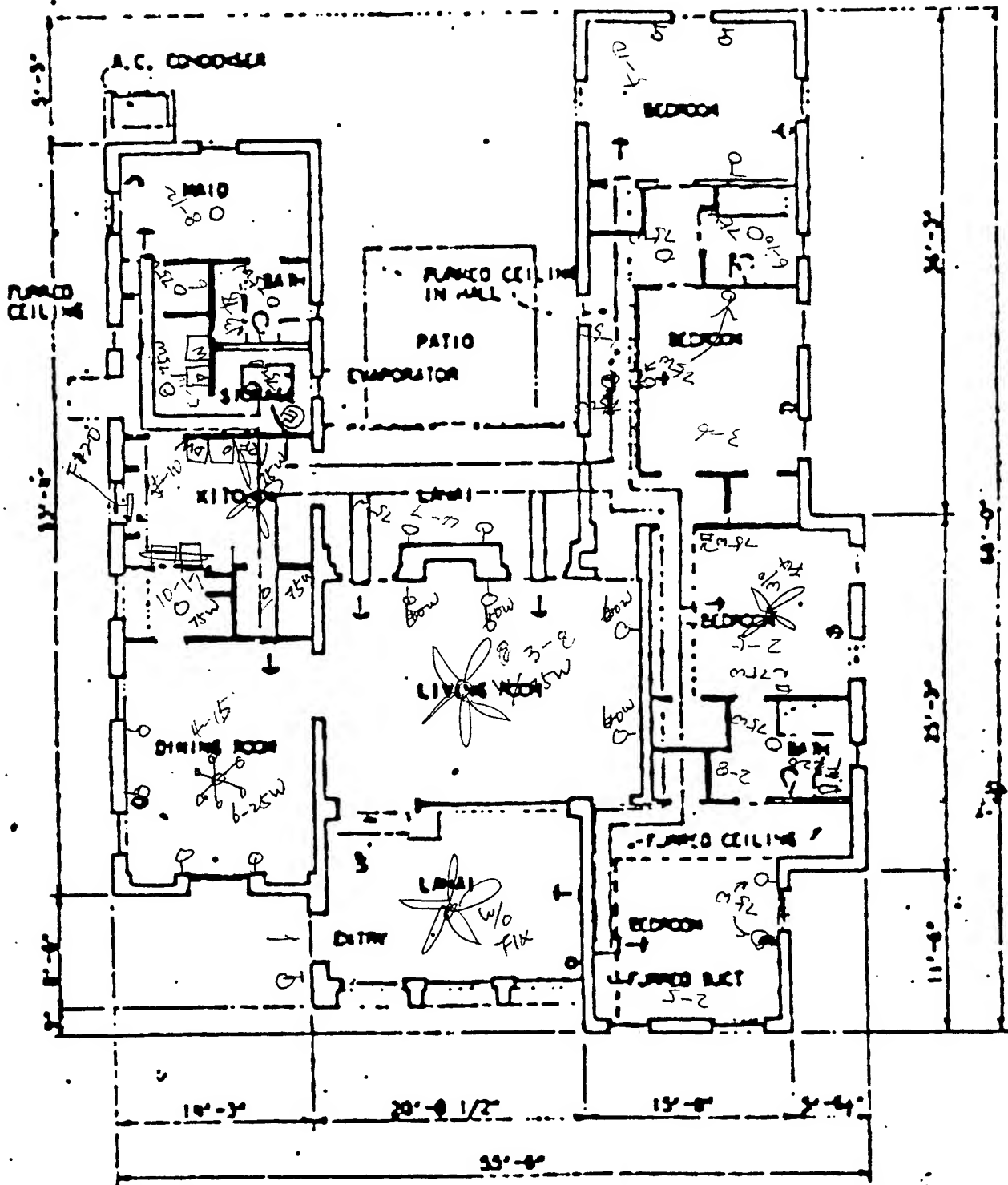
601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Type 32-IV

SEE 30' X 30' PLAN SHEET 12 FOR LOCATION

| |
|-----------------------------------|
| REVISIONS |
| 1. FAMILY HOUSING |
| 2. BUCKLE UP FOR AIR CONDITIONING |
| 3. OFFICE SCHEDULES 11/20/11 |
| 4. FLOOR PLAN |
| 5. 11/20/11 |
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| 98. 11/20/11 |
| 99. 11/20/11 |
| 100. 11/20/11 |

U. S. Army Engineering Division, PACIFIC REGION



FLOOR PLAN - 1/2" = 1'-0"

BUILDING NUMBERS
 601, 602, 603, 604, 605
 606, 607, 608, 609

Type 32-IV

| REVISIONS | |
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| 1 | REVISIONS |
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| 99 | REVISIONS |
| 100 | REVISIONS |

UNIT TYPE 57-I

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 802

Building Type: 57-I

Apartment: B

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: 3 or 4

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: 2 or 3 times week

Remarks: _____

2.0 ARCHITECTURAL

Construction

*Crawl
space
under house
available
~3'*

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Roof

Asphalt Shingles

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 / Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 160 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: good Armalex
Insulation Thickness: 1"

e. Is Hot Water Circulated? No

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location laundry Room
- b. Areas Served All
- c. Manufacturer and Model Hout Model FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities:
 - 1) Storage /
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 66 gal

- g. Heating Capacity 2250W
h. Type Controls (Air, Steam, Electric) E
i. When Installed & Condition Good
j. Heater Temperature Setting _____
k. Average Water Maintained Temperature _____
l. Temperature Differential (j) - (k) _____
m. Is Hot Water Supply Adequate _____
n. Insulation Thickness _____
o. Insulation Material _____
p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

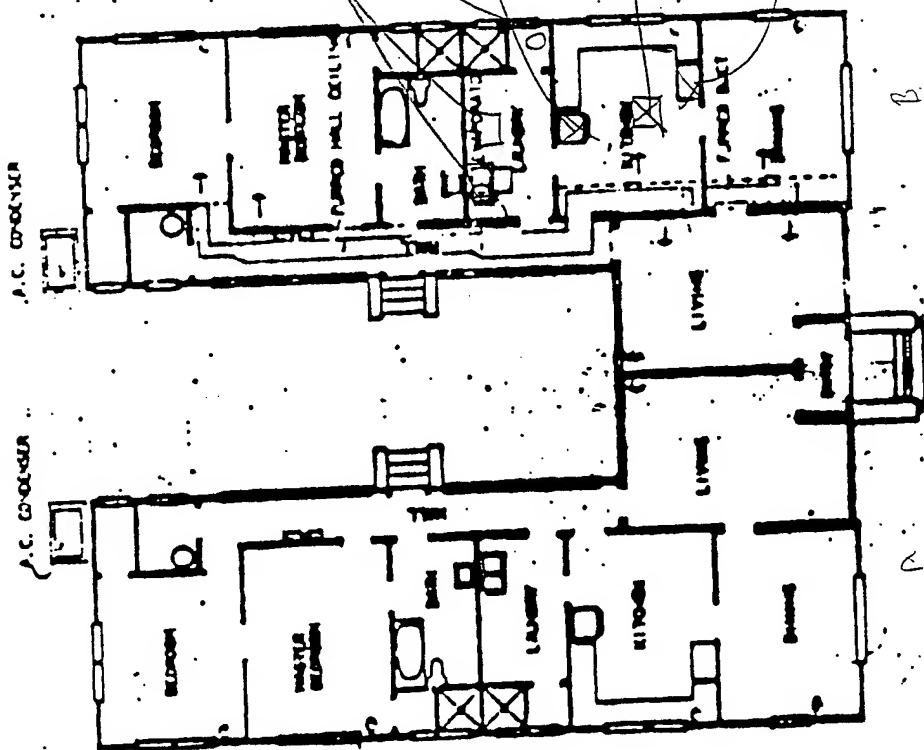
- 1) Mfg/Mdl _____
2) Galons HW/Wash _____
3) Booster Heater Mfg/Mdl _____
4) Heating Source _____
5) Capacity _____
6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
2) Setting: Hot _____ Warm _____ Cold _____
3) Gallons HW/Wash _____
4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------|--------|-------------|---------|
| laundry Tub | 42/105 | 160°F | |
| Shower | 22/65 | 142°F | |
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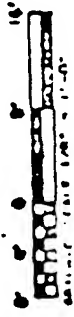
Type
57-1 B
802 B

BUILDING NUMBERS

AREA D 100
SEE SITE PLAN SHEET (E) FOR LOCATION
AREA I 734
SEE SITE PLAN SHEET (H) FOR LOCATION
AREA J 802, 814, 835
SEE SITE PLAN SHEET (I) FOR LOCATION

| REVISIONS | FAMILY NUMBER |
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| 100 | 100 |

FLOOR PLAN
SCALE 1/8" = 1'-0"



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 814

Building Type: _____

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 2

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 3

Average No. of Times Dishwasher Used/Day: Not used

Remarks: _____

2.0 ARCHITECTURAL

same as 802

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

same as 802

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Gallons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|----------|-------------|---------|
| Laundry St | 3.5L/10s | 120F | |
| Bathroom Shower | 3L/10s | 118 | |
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Type: 57-1

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BUILDING

Building Models

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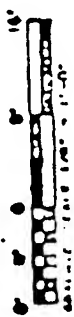
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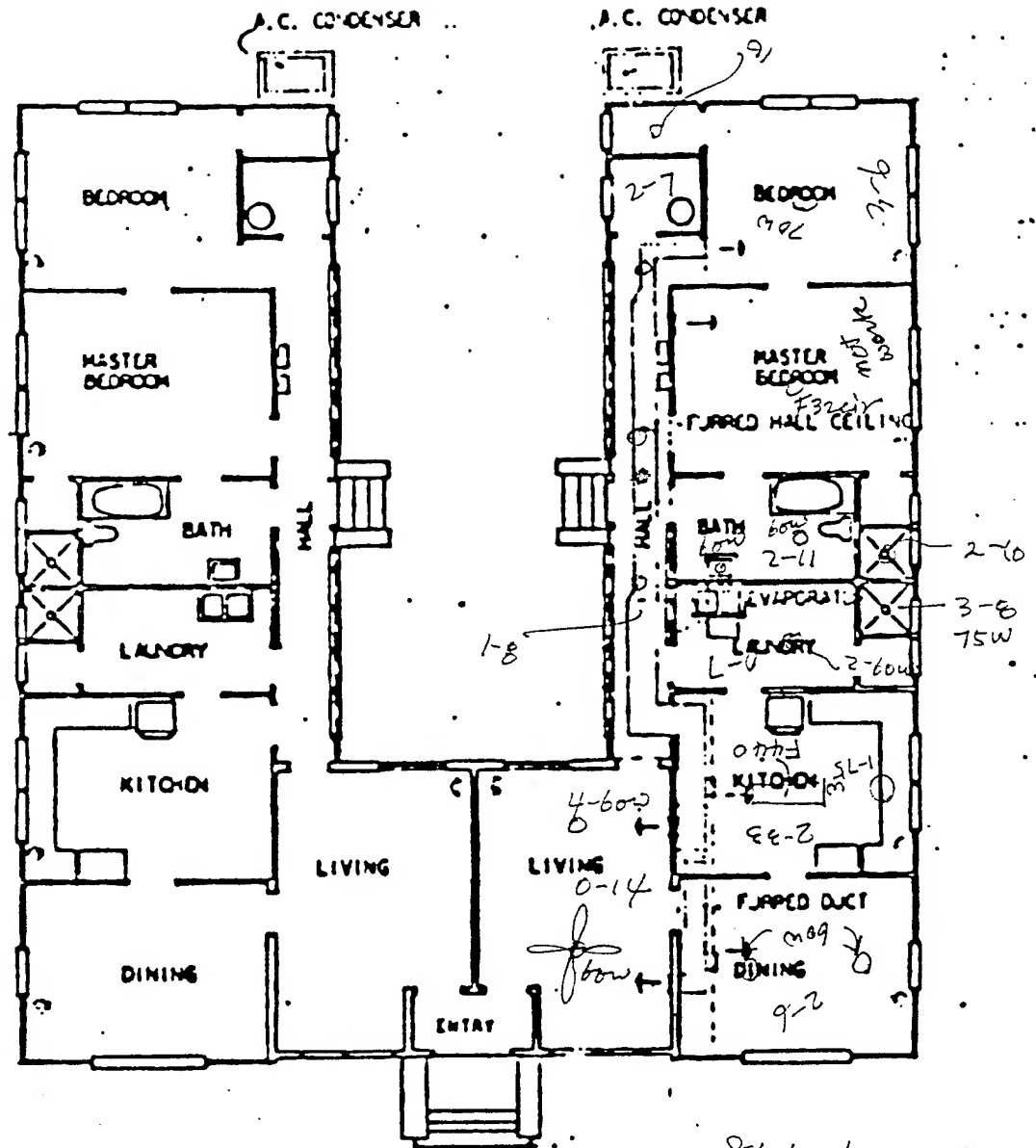
11/17/01 10:00 AM 11/17/01 10:00 AM

AMAR 802. 010. 015

MC 3111 AA 3-111 (1) 100 100 100

1992 1991

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FLOOR PLAN
SCALE 1/8" = 1'-0"

Date: 1/11/90
Prepared By: LK

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 835

Building Type: 57-I

Apartment: B

No. Bedrooms: 2

Area: J

Address: _____

Telephone No.: _____

Occupied Hours: from 6 pm

No. of Occupants: 2

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1/2 (every other day)

Remarks: _____

2.0 ARCHITECTURAL

same as 802

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Roof

Asphalt Shingles

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: No
Insulation Thickness:

e. Is Hot Water Circulated? No

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Closet in Laundry Room
- b. Areas Served all
- c. Manufacturer and Model Hwyt
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E 2250 Watt
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 66 gallon

- g. Heating Capacity 2250 Watt
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate Yes
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

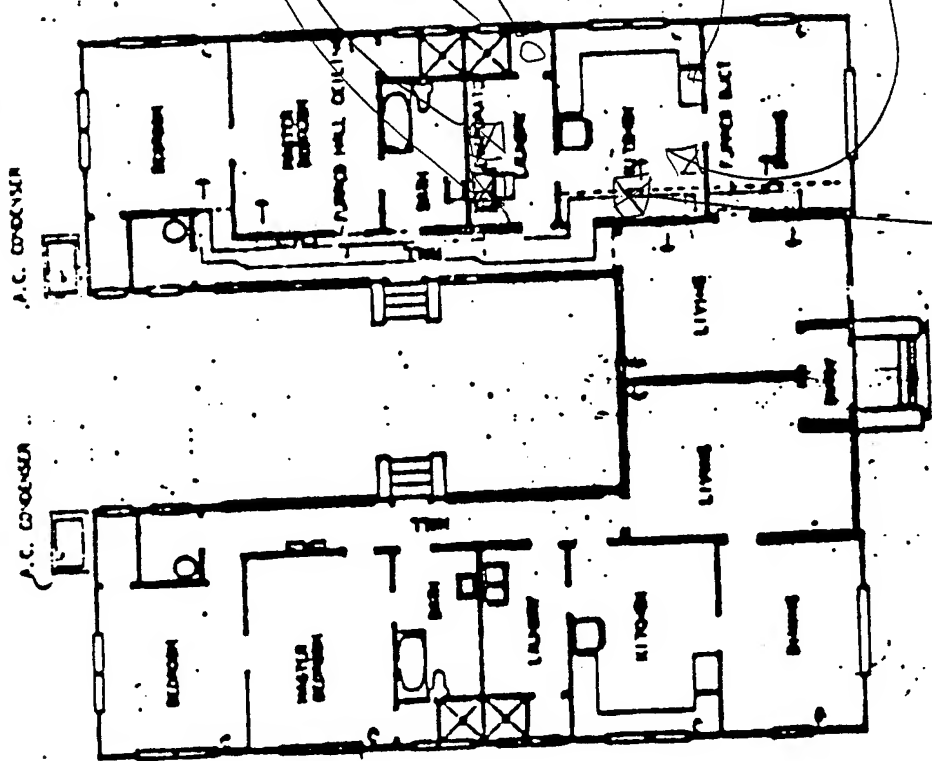
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|--------------------|-----------------|--------------|---------|
| <u>Laundry Tub</u> | <u>2.5l/10s</u> | <u>110°F</u> | |
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W. White 2 sp, 3 cyl.
D. White Westinghouse

W. White 2 sp, 3 cyl.

W. White 2 sp, 3 cyl.

Type

57-1

835B

W. White 2 sp, 3 cyl.

Living
Gibson
Front Clear

PLAN
SCALE 1/8" = 1'-0"

BUILDING NUMBERS
AREA D 109
SEE SITE PLAN SECTION FOR LOCATION
AREA I 736
SEE SITE PLAN SECTION FOR LOCATION
AREA J 802, 819, 833
SEE SITE PLAN SECTION FOR LOCATION

| | |
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| REVISED | FAMILY ROOMS |
| BLOCKY DATA FOR AIR CONDITIONING PROJECTS | |
| OFFICES' QUARTERS' SCHEDULE AREAS 1 AND 2 | |
| FLOOR PLAN 2 DE 100111 | |
| SCHEDULES | DATE, MONTH |
| U. S. ARMY ENGINEERING DIVISION, WASHINGTON, D. C. | |
| COMPS OF DRAWINGS | |
| NO. 100111, 100112 | |



UNIT TYPE 57-II

Date: 11/15/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3401 A

Building Type: 57-II

Apartment: _____

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. Wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. Roof

BUR.

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
110 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: Yes
Insulation Thickness: 1"

e. Is Hot Water Circulated? No

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Outside Storage
- b. Areas Served Entire Unit
- c. Manufacturer and Model Hwy FES-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) E
- e. Type Heaters & Quantities: ✓
- 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 1.6 gal

- g. Heating Capacity 2250W
 h. Type Controls (Air, Steam, Electric) E
 i. When Installed & Condition _____
 j. Heater Temperature Setting _____
 k. Average Water Maintained Temperature _____
 l. Temperature Differential (j) - (k) _____
 m. Is Hot Water Supply Adequate _____
 n. Insulation Thickness _____
 o. Insulation Material _____
 p. Timeclock and Hrs Set None

3.3 HW USING APPLIANCES

a. Dishwasher

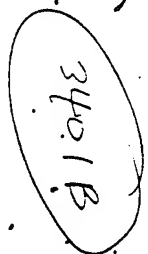
- 1) Mfg/Mdl _____
 2) Galons HW/Wash _____
 3) Booster Heater Mfg/Mdl _____
 4) Heating Source _____
 5) Capacity _____
 6) Electrical Data _____

b. Clothes Washer

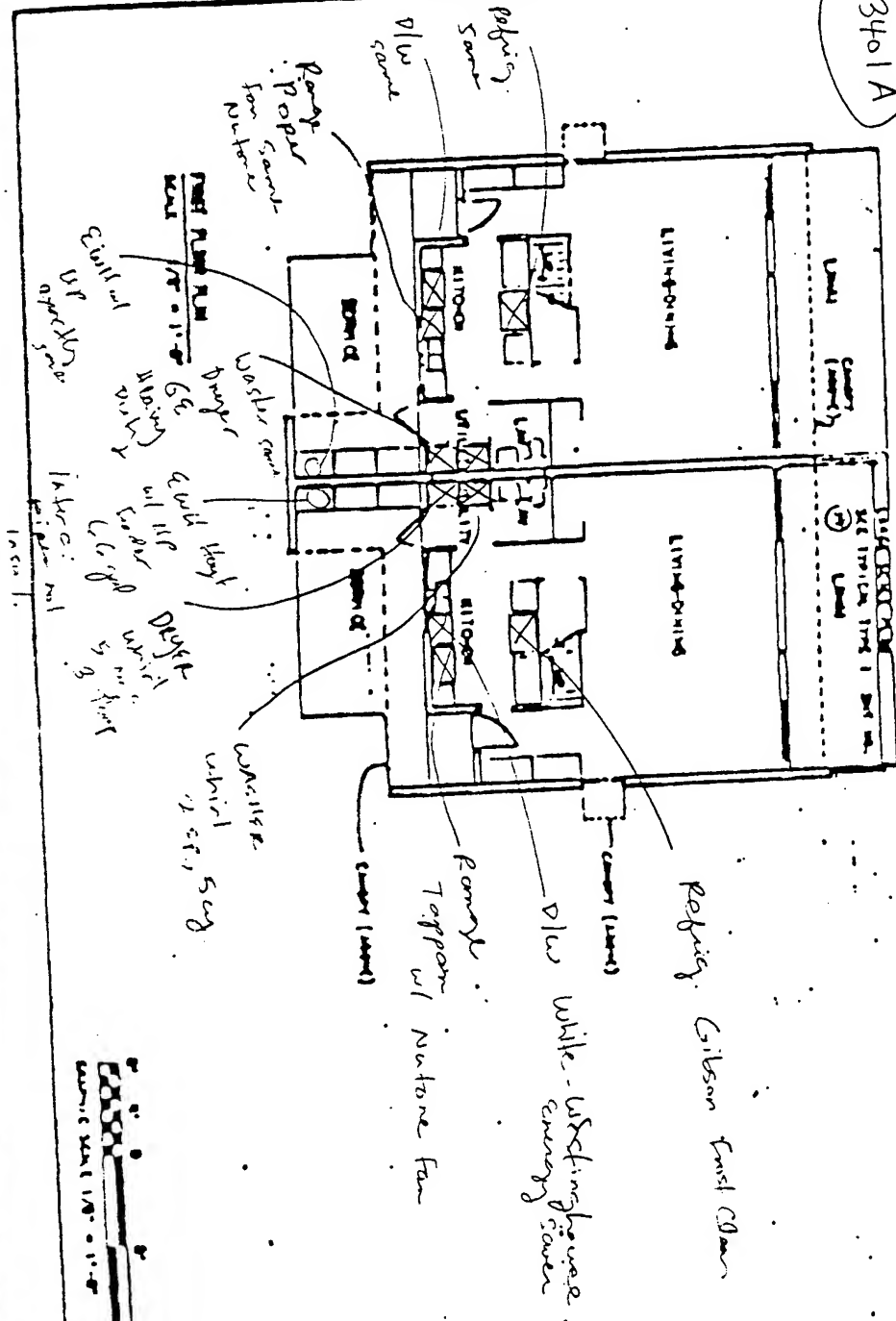
- 1) Mfg/Mdl _____
 2) Setting: Hot _____ Warm _____ Cold _____
 3) Gallons HW/Wash _____
 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|----------------------|-------------|-------------|
| KIT. SK | 2 $\frac{1}{2}$ /10s | 110F | |
| Bathroom Shwr | 4 $\frac{1}{2}$ /10s | 108F | Normal Head |
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3401A



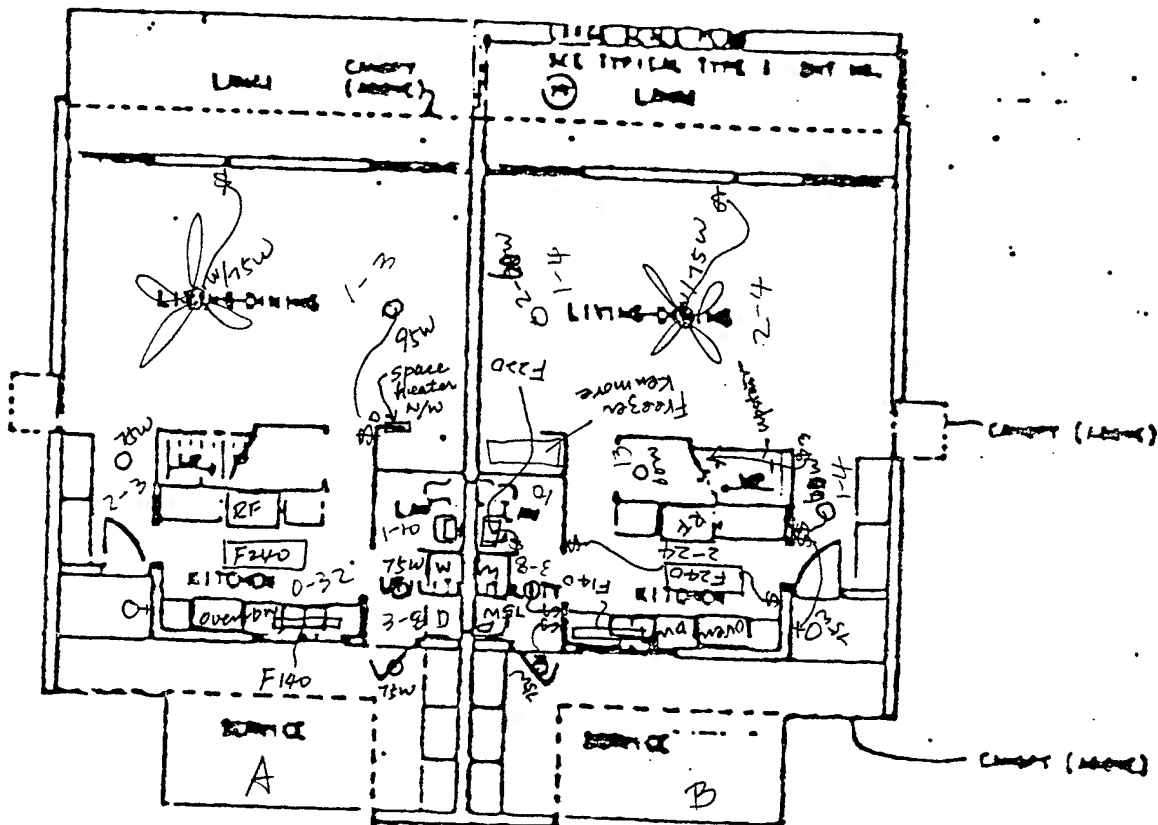
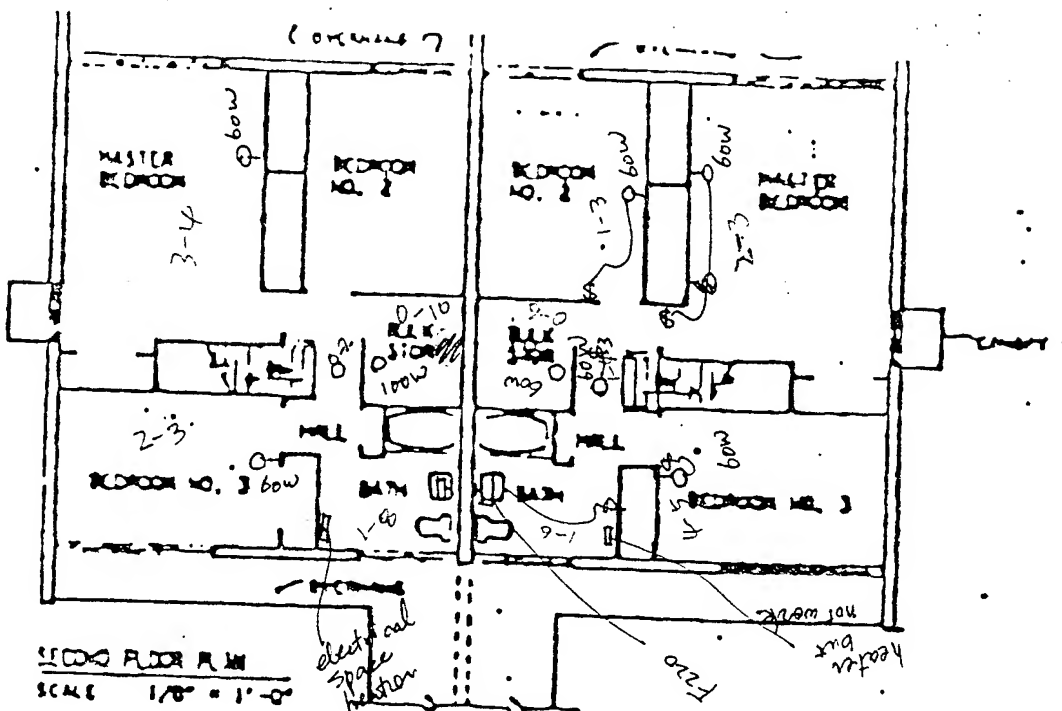
Requig. Gibson Ernst Olson

White - Westinghouse
Energy cover

Type 57-II

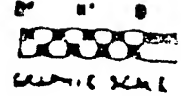
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|---|---|
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 ADDRESS _____
 CITY _____
 STATE _____
 ZIP _____ </p> | |
| <p> NAME _____
 ADDRESS _____
 CITY _____
 STATE _____
 ZIP _____ </p> | <p> NAME _____
 ADDRESS _____
 CITY _____
 STATE _____
 ZIP _____ </p> |

[illegible]



57-II

3401, 3402, 3405.
3406, 3410, 3411
3413, 3414.



Date: 1/15/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3401

Building Type: 57-II

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

Same as 34-1 A

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

CMU

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc.

BUR ?

Inside Film _____

Total

U-Factor _____ Area

| Window | Yes | No |
|--------------------|-----|----|
| Tinted | ✓ | |
| Reflective Coating | | ✓ |

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

_____ Central Plant _____ One System per Building
_____ Several Small Systems per Building
_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location _____

b. Areas Served _____

c. Manufacturer and Model _____

d. Energy (Oil, Gas, Electric, Coal, Etc.) _____

e. Type Heaters & Quantities:

1) Storage _____

2) Instantaneous _____

3) Semi-Instantaneous _____

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------------|--------|-------------|--|
| KIT. SK. | 20/10s | 166F | |
| Bathroom Show. | 10/10s | 100F | Teledyne Water
Pick, Super Saver head |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

Date: 1/15/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3402

Building Type: 57-II

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 34-1 A

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

same as 3401.A

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

____ Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
 h. Type Controls (Air, Steam, Electric) _____
 i. When Installed & Condition _____
 j. Heater Temperature Setting _____
 k. Average Water Maintained Temperature _____
 l. Temperature Differential (j) - (k) _____
 m. Is Hot Water Supply Adequate _____
 n. Insulation Thickness _____
 o. Insulation Material _____
 p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
 2) Galons HW/Wash _____
 3) Booster Heater Mfg/Mdl _____
 4) Heating Source _____
 5) Capacity _____
 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
 2) Setting: Hot _____ Warm _____ Cold _____
 3) Gallons HW/Wash _____
 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------------|---------|-------------|----------------------|
| Kit. SK | 2 1/10s | 126F | Faucet head added on |
| Bathtub Shower | 1 1/10s | 110F | |
| | | | |
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SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

178-11-3

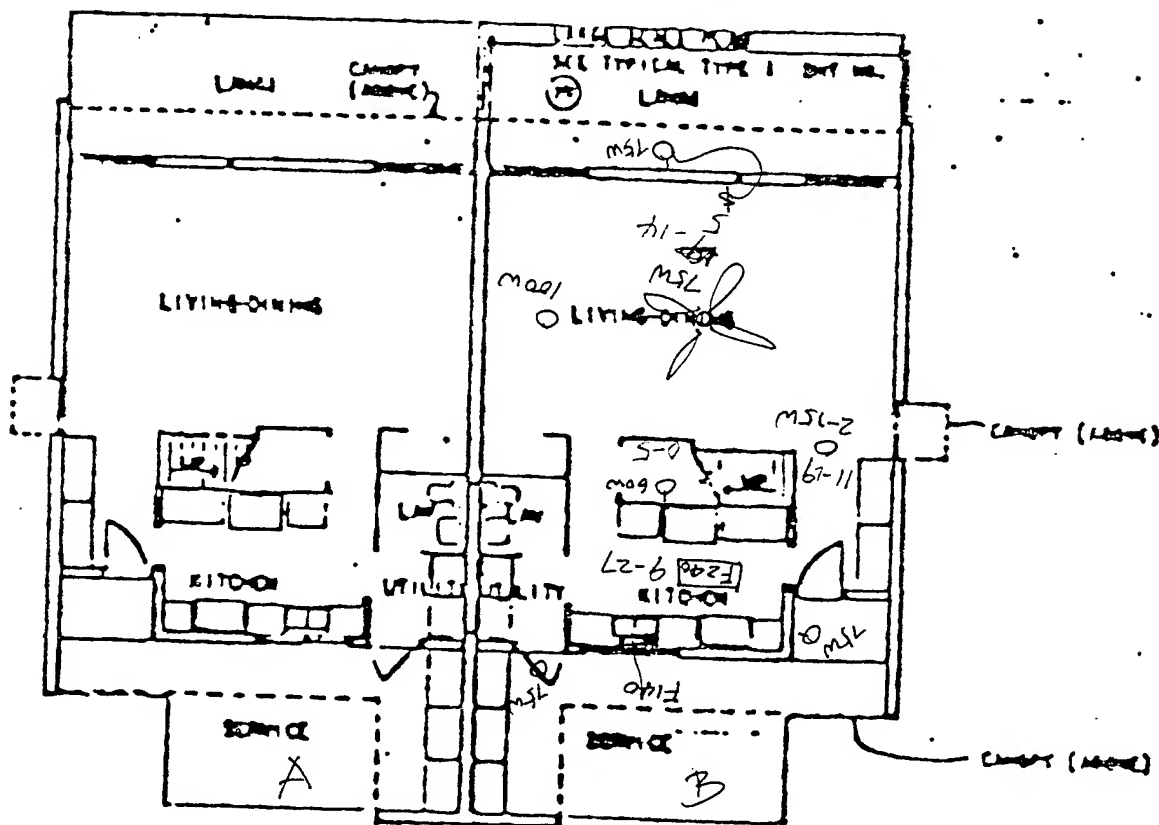
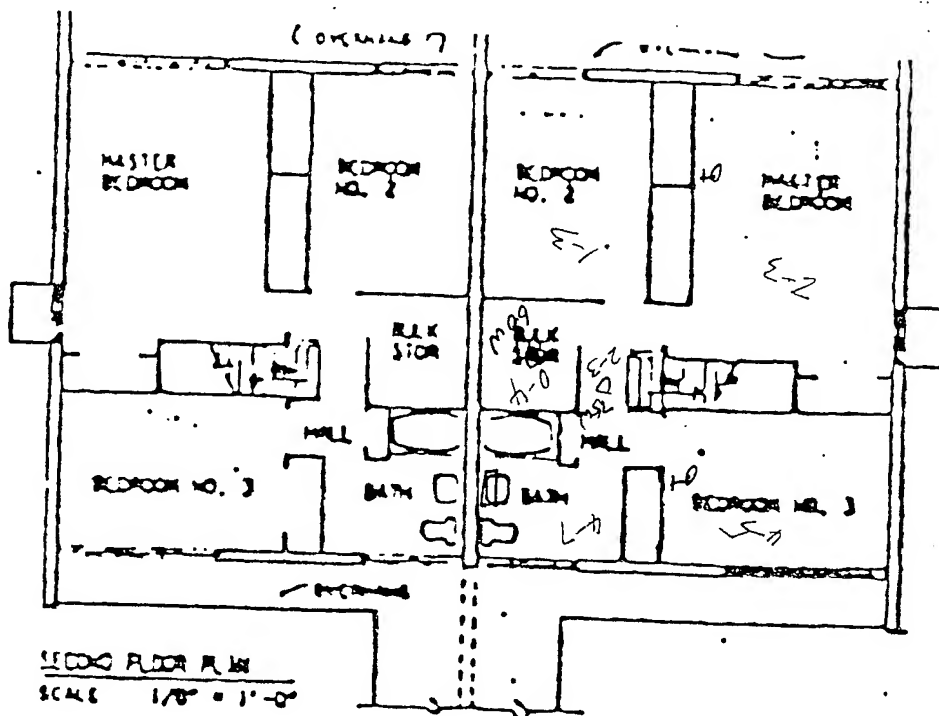
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7-10-68 OFFICE BUILDING

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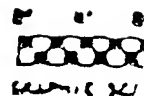
Type 57-II

| | | | | |
|---|------|----|----|----|
| LOC. CODE | NAME | 75 | 23 | 88 |
| U. S. ARMY MEDICAL DIVISION, THE
OFFICE OF DENTISTRY,
HOSPITAL, WHEELER | | | | |
| DENTIST | | | | |
| FIRST AND SECOND FLOOR PLUMB | | | | |
| CURRENT RELEASES OF ALL FBI | | | | |
| BLACKPANTHER PARTY AND ASSOCIATES | | | | |
| JANUARY 1968 | | | | |
| REVIEWS | | | | |



57-II

3401, 3402, 3405.
3406, 3410, 3411
3413, 3414.



Date: 1/15/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3405

Building Type: 57-II

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY, EVERY OTHER DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

same as 3401A

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 128 °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
 - 1) Storage _____
 - 2) Instantaneous _____
 - 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|-----------|-------------|--------------------------------|
| KIT. SK. | 1.5 l/10s | 128 F | Diff faucet head |
| Bathroom shwr | 2 l/10s | 110 F | Shwr Massage Head by Water Pik |
| | | | |
| | | | |
| | | | |
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Date: 1/15/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3406

Building Type: 57-II

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 3401A

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

same as 34.1 A

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

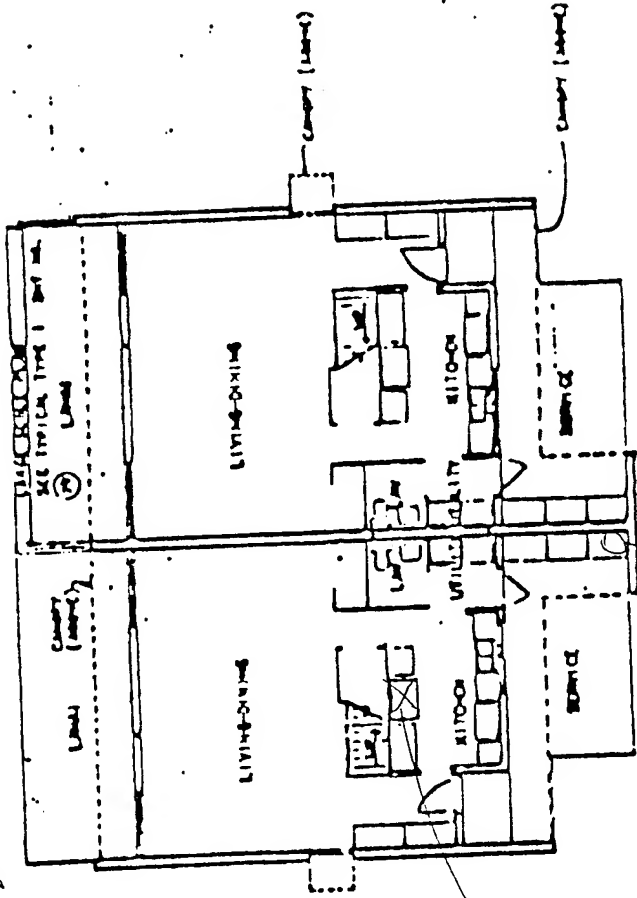
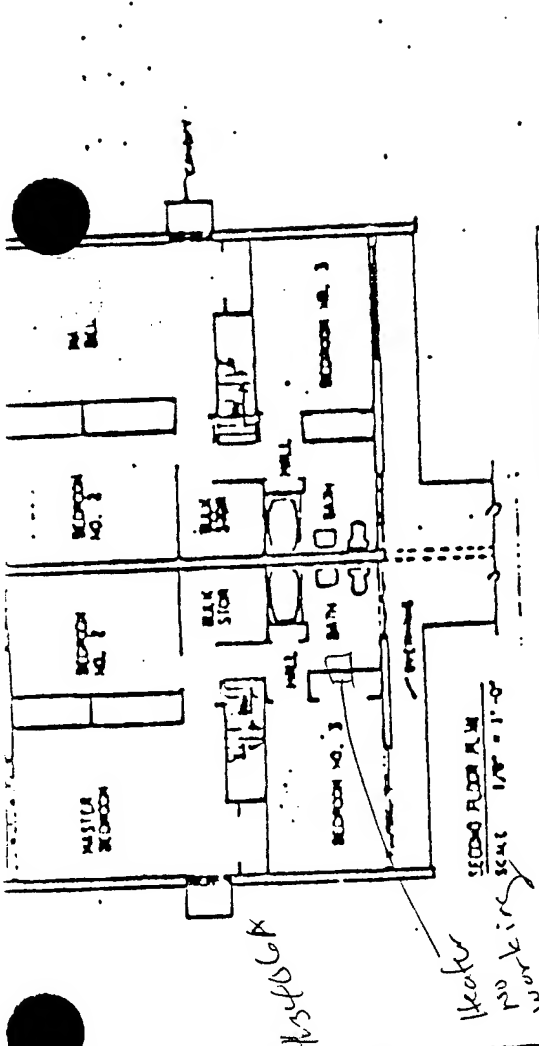
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|--------|-------------|---------|
| Kit SK | 22/105 | 128 | |
| Bathroom Shower | 12/105 | 114F | |
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66 gyl row
118 prepared

FIELD CHECK OFFICER SIGNATURE

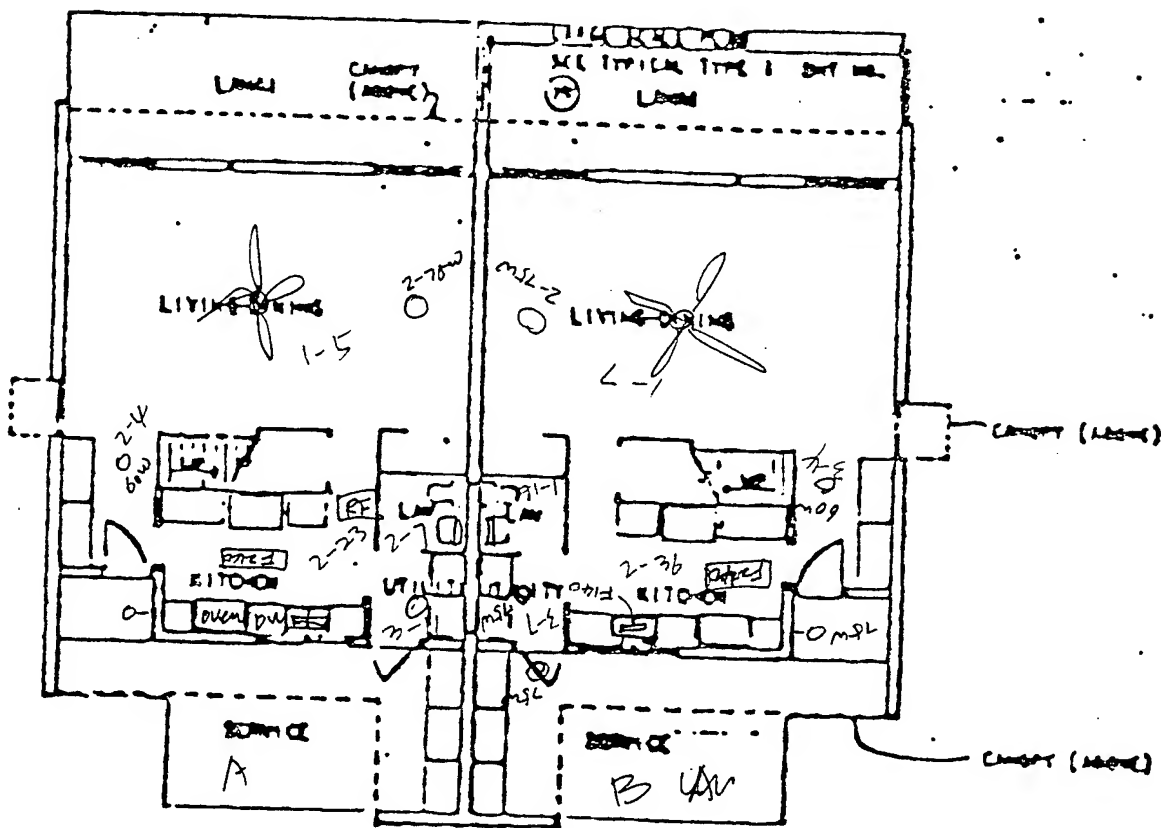
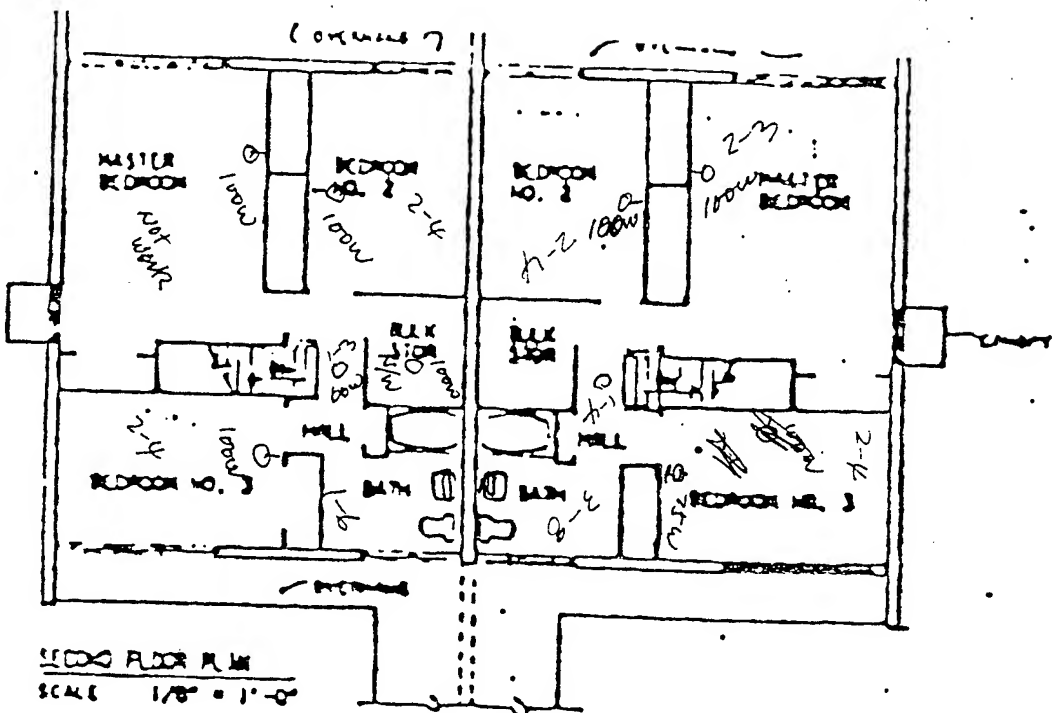
BUILDING NUMBER

SEE 24 X 24 PLAN SHEET 20

Type 57-II

| REVISIONS | |
|-----------|----------|
| 1 | REVISION |
| 2 | REVISION |
| 3 | REVISION |
| 4 | REVISION |
| 5 | REVISION |
| 6 | REVISION |
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| 8 | REVISION |
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| 97 | REVISION |
| 98 | REVISION |
| 99 | REVISION |
| 100 | REVISION |



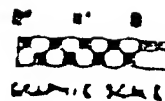


57-II

3401, 3402, 3405.

3406, 3410, 3411

3413, 3414.



Date: 11/15/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3406

Building Type: 57-II

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

same as 3401A

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.)

Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

same as 3401A

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

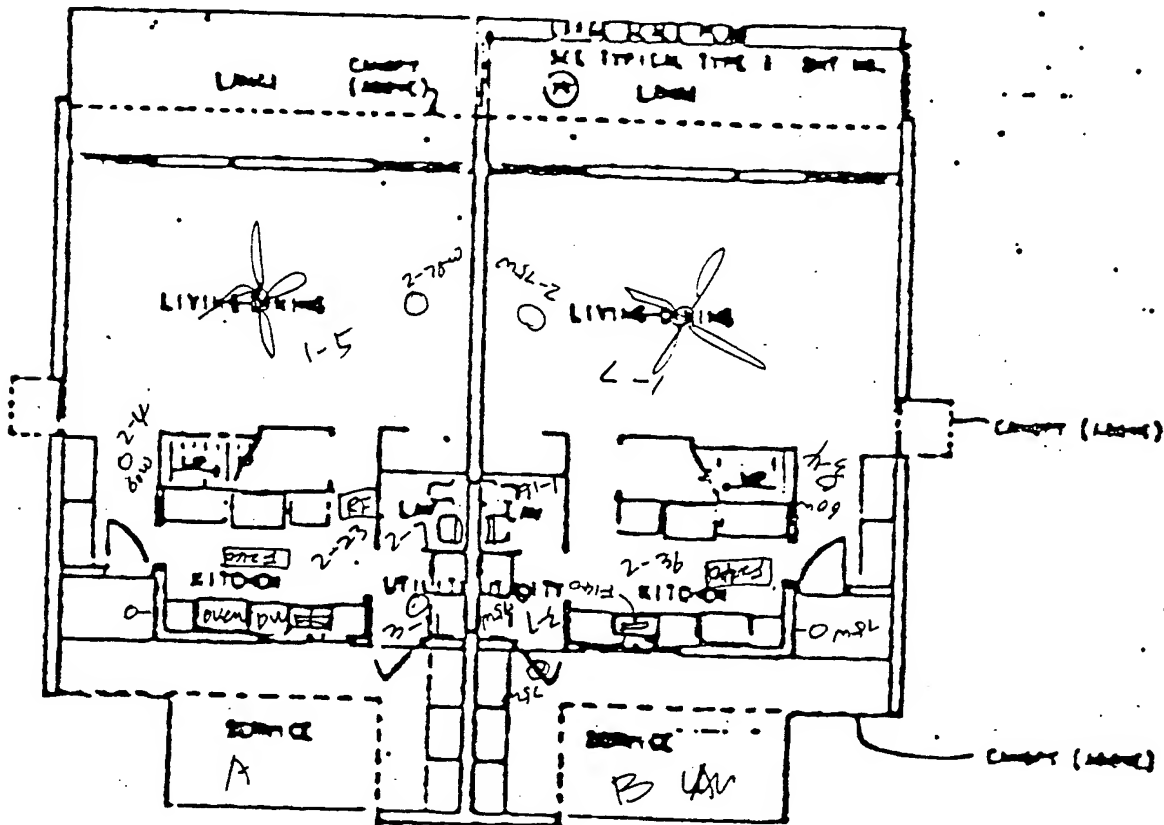
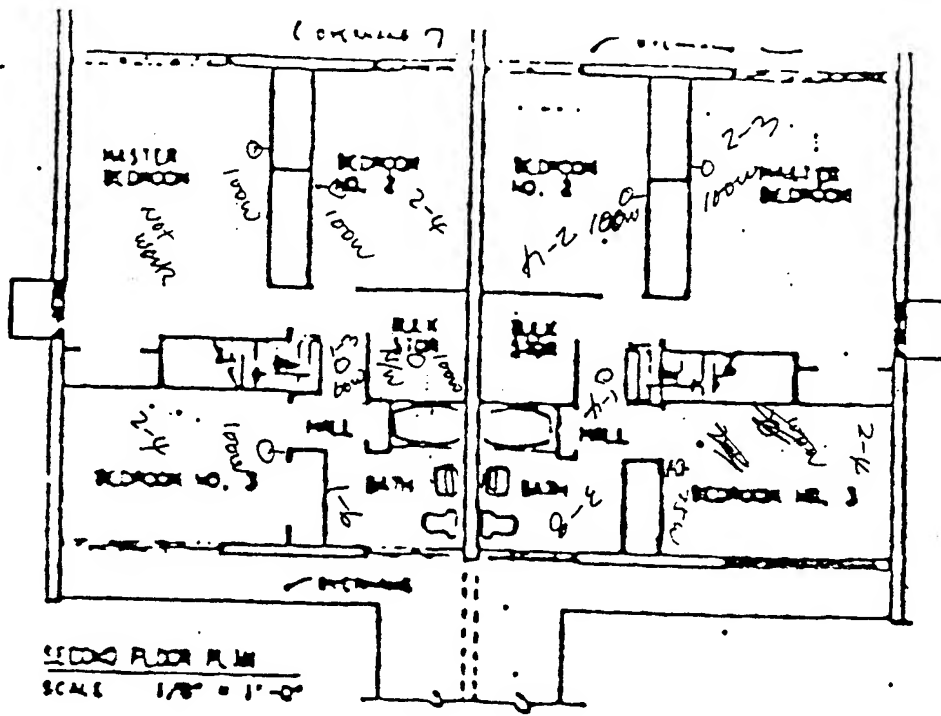
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|--------|-------------|---------|
| Kit. Sk | 2l/10s | 120 F | |
| Bathroom SHWR | 3l/10s | 120 F | |
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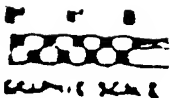


57-II

3401, 3402, 3405.

3406, 3410, 3411

3413, 3414.



UNIT TYPE 57-III

Date: 1/16/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3403A

Building Type: 57-III

Apartment: 3

No. Bedrooms: _____

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-II

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

Same as 57-II

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

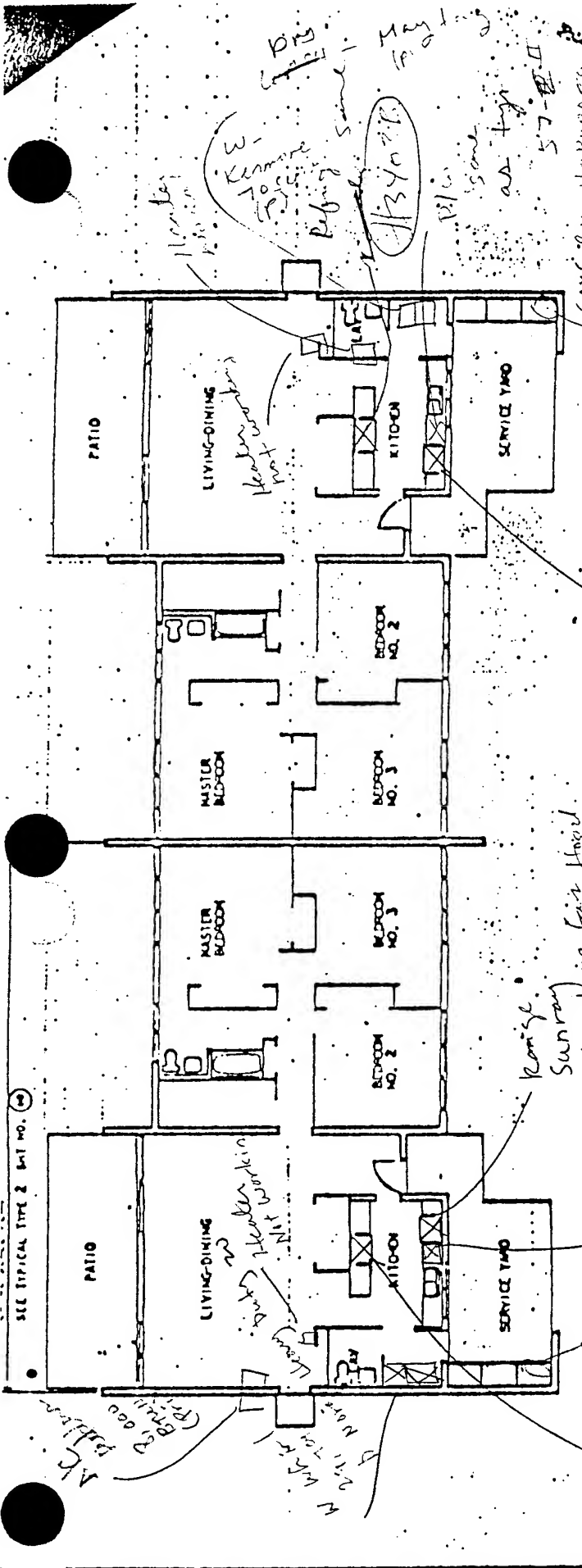
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|--------|-------------|---------|
| Kit SK | 22/10s | 112F | |
| Bathroom Shwr | 12/10s | 112F | |
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| | | | |



SEE TYPICAL TYPE 2 BUT NO. 2

Living-dining no fireplace

Kitchen

Service yard

Master bedroom

Bedroom no. 2

Bedroom no. 3

Range Survey w/ Mr. Kline for third

Range on A same as A

Type 57-III

FIELD GRADE OFFICE QUARTERS

BUILDING NUMBERS

AREA K-1 3403, 3404, 3419, 3423, 3408 3315, 3318, 3403, 3411

SEE SITE PLAN SHEET 67 FOR LOCATION

Refining Gibson first clear

Refining same as type 57-III

Kennebec type 57-III

Patio

Living-dining

Kitchen

Service yard

Master bedroom

Bedroom no. 2

Bedroom no. 3

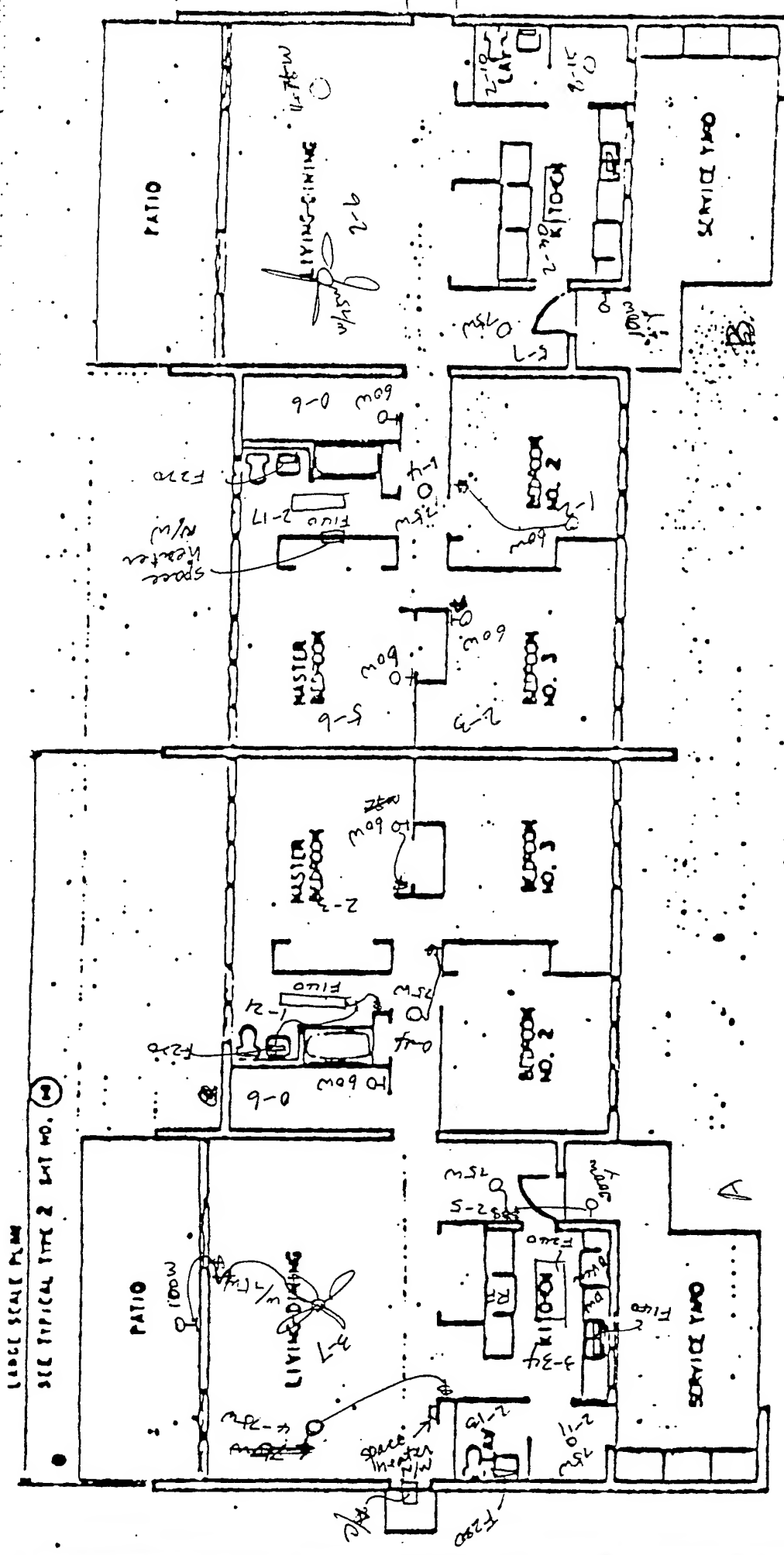
3403 A

FLOOR PLAN
SCALE 1/8" = 1'-0"



Refining same as 57-III

| REVISIONS | |
|--|----------------|
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CURRENT HOUSING SCHEDULE 1937 AREA A-1 | |
| FLOOR PLAN | |
| SCHEDULED BUILDINGS | 624, 62401 |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN COMPS OF ENGINEERS | |
| FOOTLOCK, HAWAII | |
| LOC. CODE 6008 | 21 23 27 34 36 |
| DATE 1953 | |



SEE TYPICAL TYPE 2 BUT NO. 2

Type: I
 8154 5194
 8094 6244 6144
 8144 6044 6044
 3403 3403 3403
 3513 3513 3513

Type: 67-III

FOR PLAN
 12' x 12'

Date: 1/16/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3403

Building Type: 57-III

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as
57-II

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. (CMU) 6"

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc.

BUR

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

same as 57-II

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

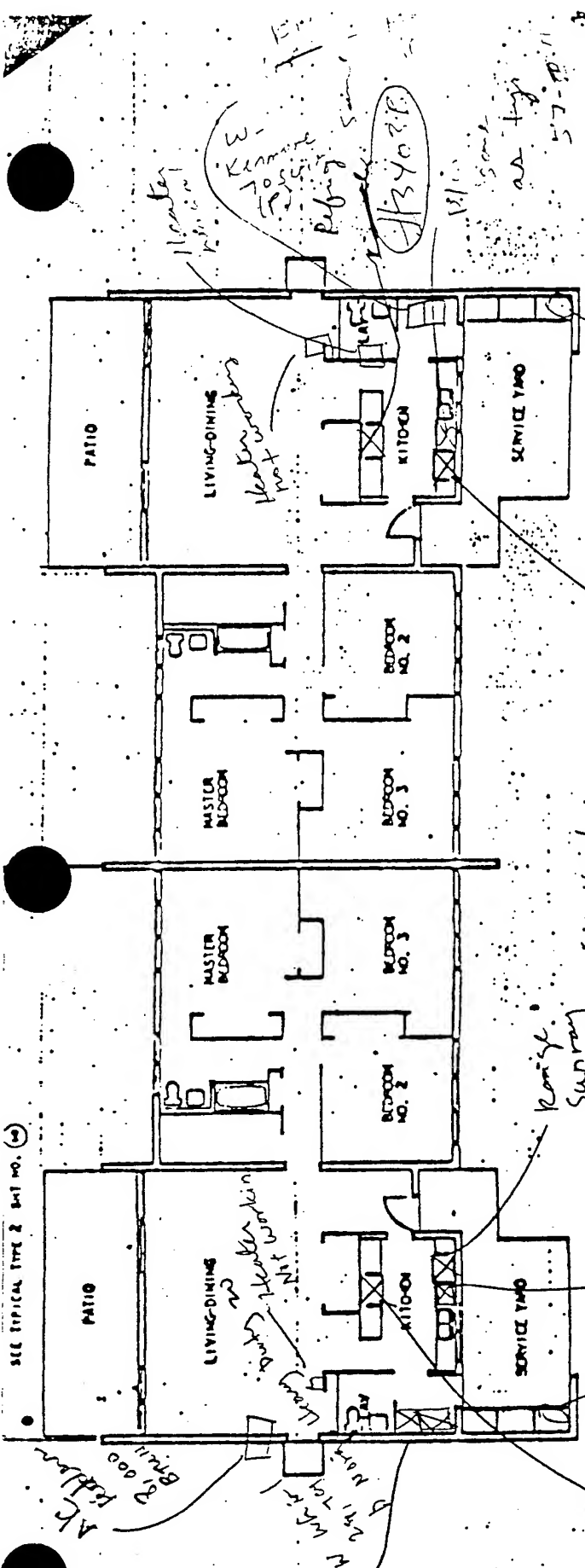
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|--------|-------------|---------|
| Kitchen | 22/10s | 124 F | |
| Bathroom Shower | 22/10s | 110 F | |
| | | | |
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| | | | |

SEE TYPICAL TYPE 2 BUT NO. (4)



Type 57-III

FIELD GRADE OFFICER QUARTERS

BUILDING NUMBERS

AREA K-1 3403, 3409, 3419, 3423, 3400
3515, 3519, 3401, 3411

SEE SITE PLAN SHEET 67 FOR LOCATION

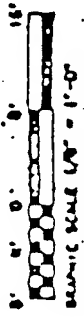
Range on A
Same

3403A

FLOOR PLAN
SCALE 1/4" = 1'-0"

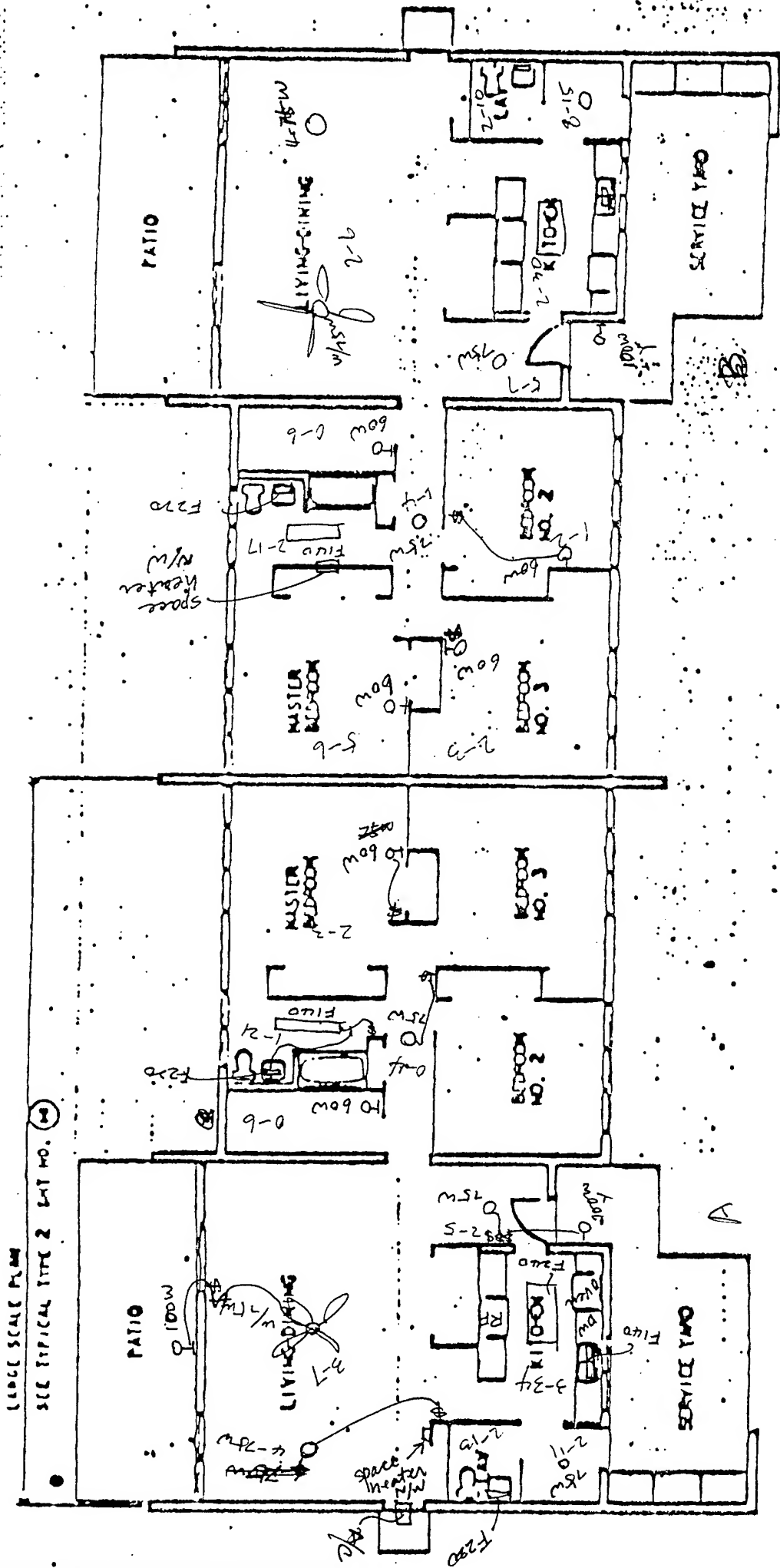
Refrig.
Gibson. Inst Clear

Unit II
Same 57-III II



| DIVISIONS | | | | | | | | | |
|---|------|----|----|----|------|--|--|--|--|
| FAMILY HOUSING | | | | | | | | | |
| BUDGETARY DATA FOR AIR CONDITIONING | | | | | | | | | |
| CAPWIRE HOUSING SCHEDULE 1937 AREA & TYPE | | | | | | | | | |
| FLOOR PLAN | | | | | | | | | |
| SCHEDULED SERVICES | | | | | | | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN
CORPS OF ENGINEERS
HONOLULU, HAWAII | | | | | | | | | |
| LOC CODE | ROOM | 25 | 23 | 09 | 3403 | | | | |

NOV 1957



Type 57-III

Type 5

3403 3409 3418
 3419 3428 3438
 3448 3458 3468

FIELD OFFICE
 BUILDING NUMBER
 3403 3409 3418
 3419 3428 3438
 3448 3458 3468

FLOOR PLAN
 SCALE 1/2" = 1'-0"

Date: 11/16/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3409

Building Type: S7-III

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 34

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 20

Average No. of Times Dishwasher Used/Day: 2

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 57-II

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-II

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

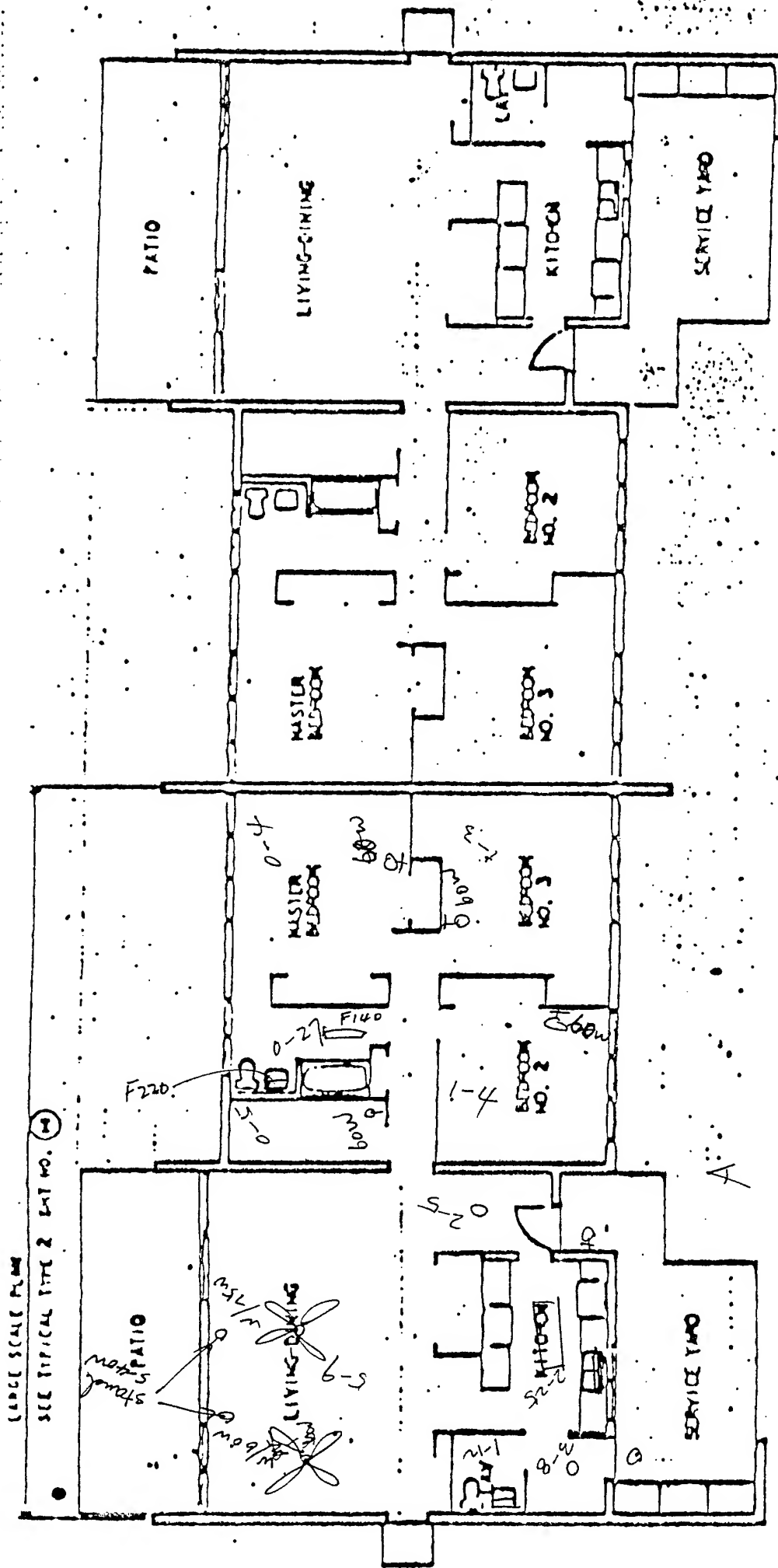
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

Water not hot off

| Fixture | Flow | Water Temp. | Remarks |
|--------------|----------|-------------|---------|
| KIT. SK | 2.5l/10s | 106 F | |
| Bathroom Tub | 1l/10s | 100 F | |
| | | | |
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| | | | |
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Type 57-III Type 5

FIELD OFFICE

BUILDING NUMBERS

AREA K-1 3403 3513

3403 3409 3418

3419 3423 3508

3451 3518

FLOOR PLAN

SCALE 1/2" = 1'-0"

Date: 1/16/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3515A

Building Type: 57-III

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 6

Average No. of Laundry Loads/Week: 20

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

same as 57-II

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as $\sin^{-1}x$

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

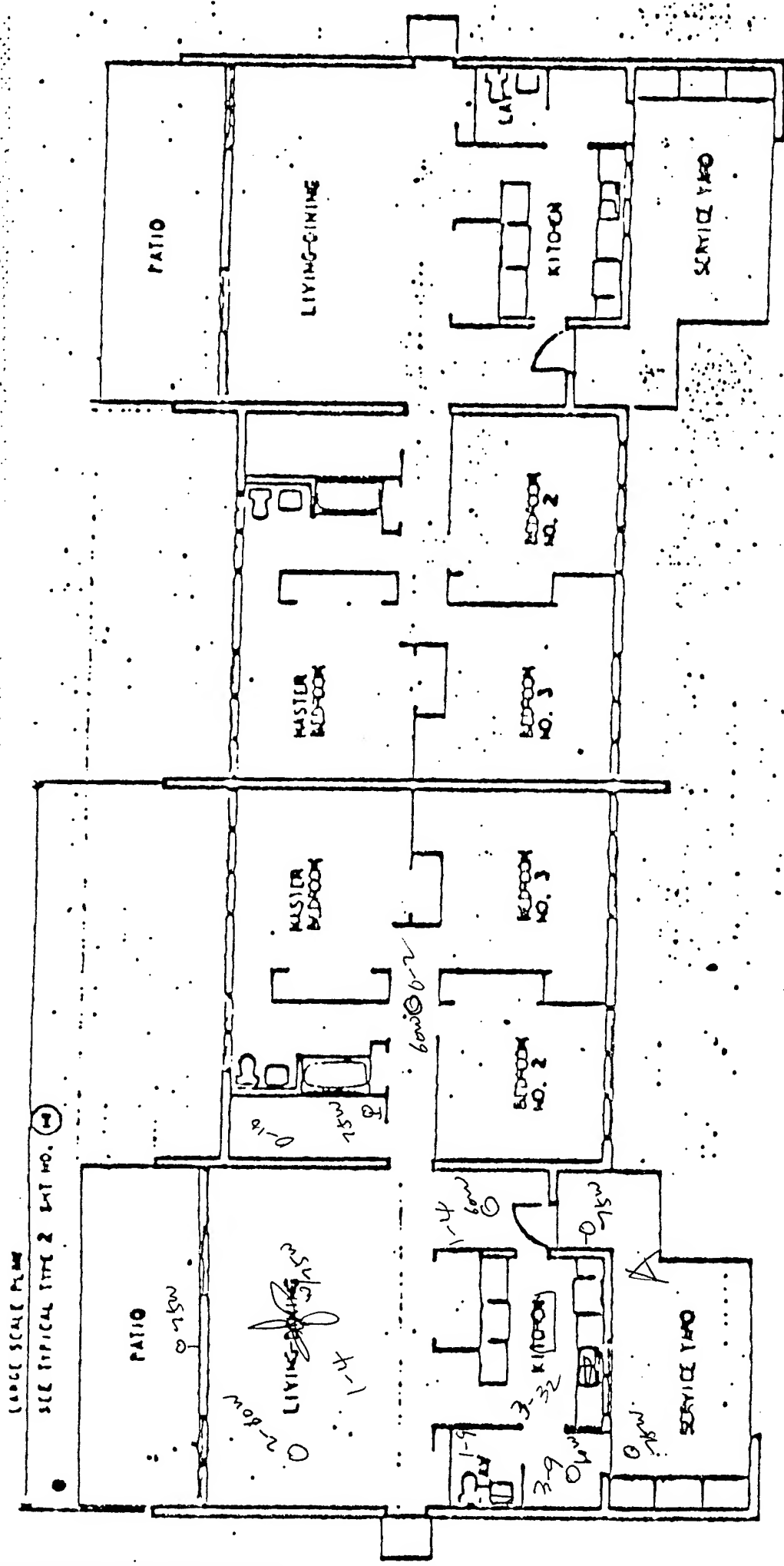
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|-----------|-------------|---------|
| Kit SK | 1.5 l/10s | 120 F | |
| | | | |
| | | | |
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| | | | |
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SEE TYPICAL TYPE 2 BUT NO. 14

Type 57-III
 3403, 3409, 3418
 3414, 3423, 3428
 3415, 3416, 3417, 3418

Type 57
 FIELD GRADE OFFICE
 BUILDING NUMBERS
 AREA K-1 3403, 3415, 3418

FLOOR PLAN
 SCALE 1/8" = 1'-0"

Date: 1/16/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3518

Building Type: 57-III

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: _____

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

same as 57-II

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

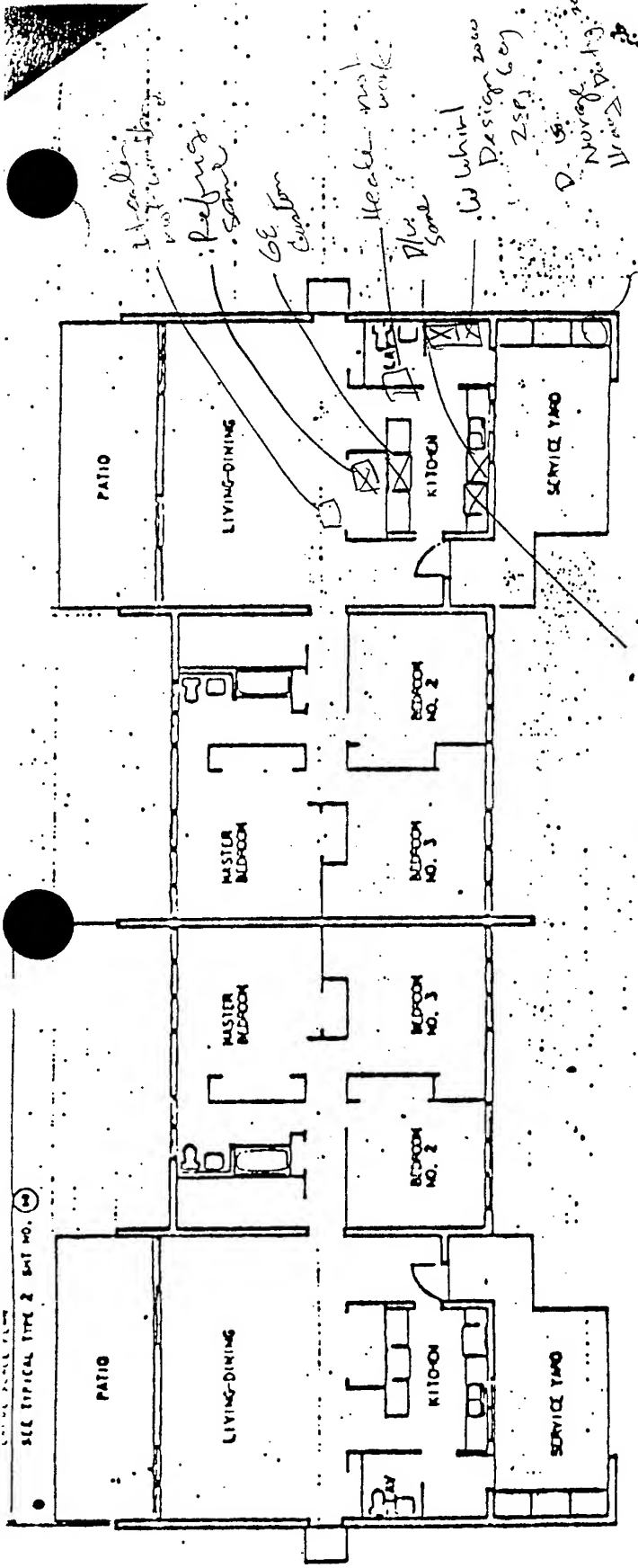
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

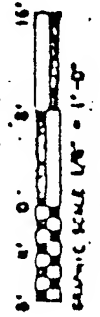
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|----------|-------------|---------|
| Kit. Sk | 1.52/105 | 126°F | |
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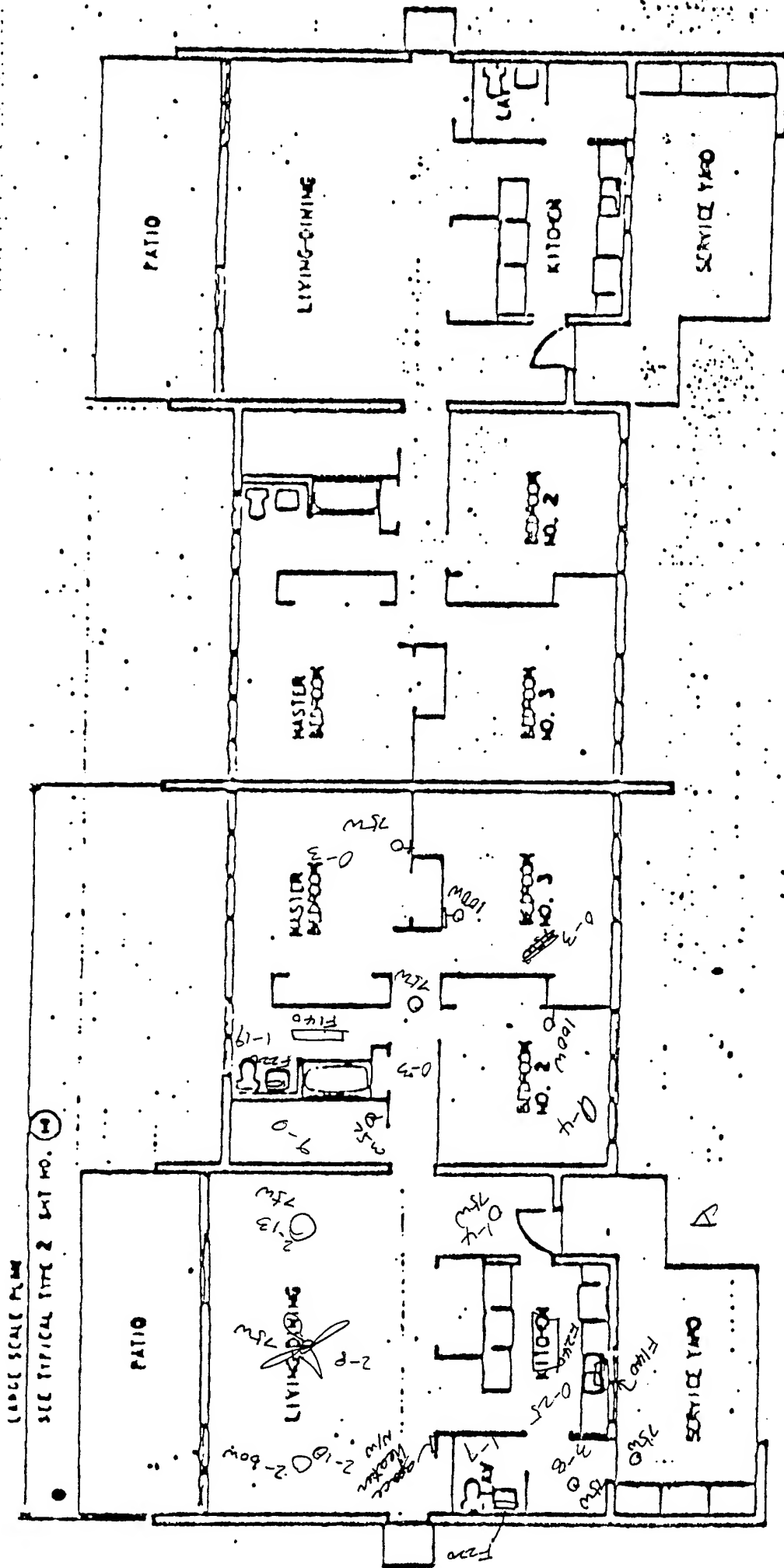


Type 57-III
 FIELD GRADE OFFICE QUARTERS
 BUILDING NUMBERS
 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000

FLOOR PLAN
 SCALE 1/8" = 1'-0"



| REVISIONS | |
|-----------|-----------|
| 1 | REVISIONS |
| 2 | REVISIONS |
| 3 | REVISIONS |
| 4 | REVISIONS |
| 5 | REVISIONS |
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| 97 | REVISIONS |
| 98 | REVISIONS |
| 99 | REVISIONS |
| 100 | REVISIONS |



Type 5
FIELD GRADE OFFICE
BUILDING NUMBER
APR 11 1963
3515

Type 67-III
3403 3409 3418
3419 3423 3428
3451 3452 3453

1/2" = 1'-0"
SCALE
FLOOR PLAN

UNIT TYPE 57-IV

Date: 1/17/96
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3427
Building Type: 57-IV
Apartment: A
No. Bedrooms: 3
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: ALL DAY
No. of Occupants: 4
Average No. of Showers/Day: 3
Average No. of Laundry Loads/Week: 6
Average No. of Times Dishwasher Used/Day: Not used
Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

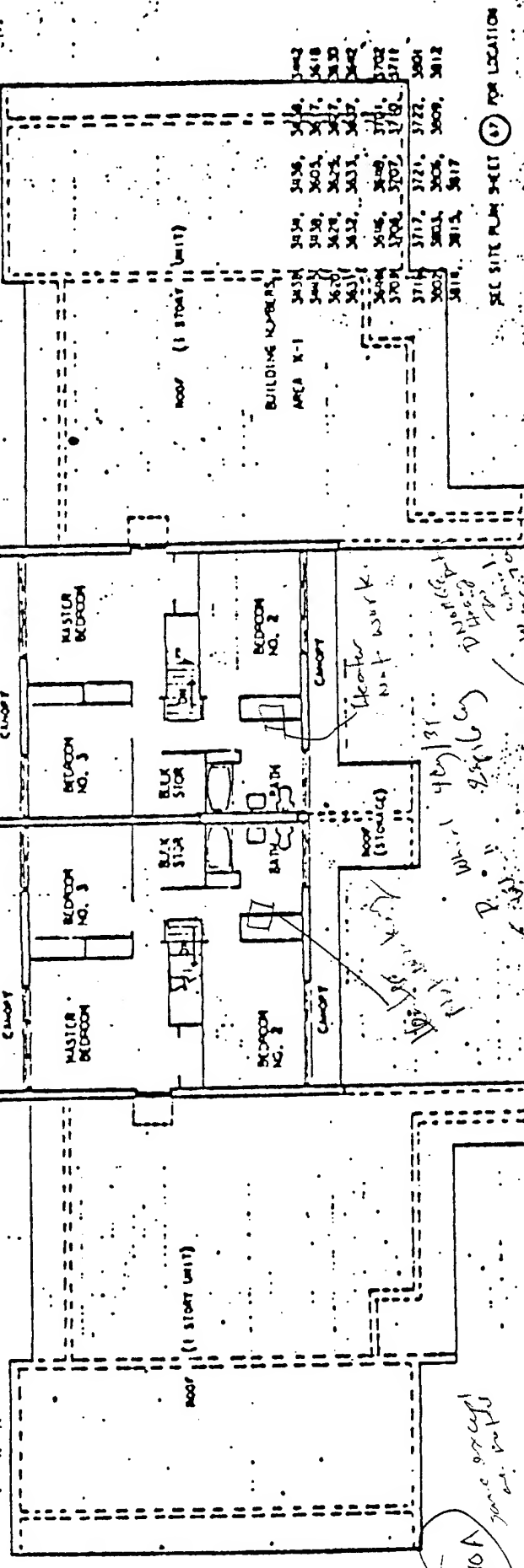
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|--------|-------------|---------|
| Kit SK | 22/105 | 120 F | |
| Bathroom Shower | 22/105 | 112 F | |
| | | | |
| | | | |
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| | | | |

12-14-2



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

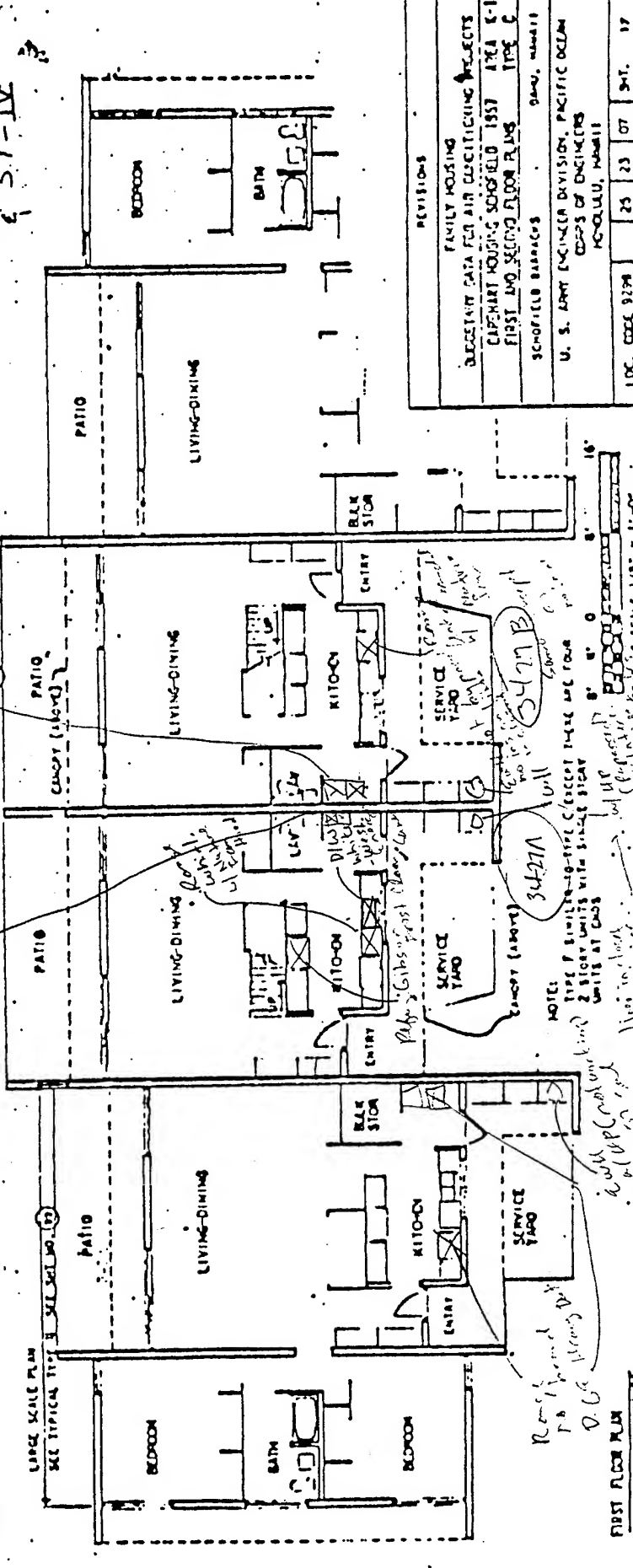
SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

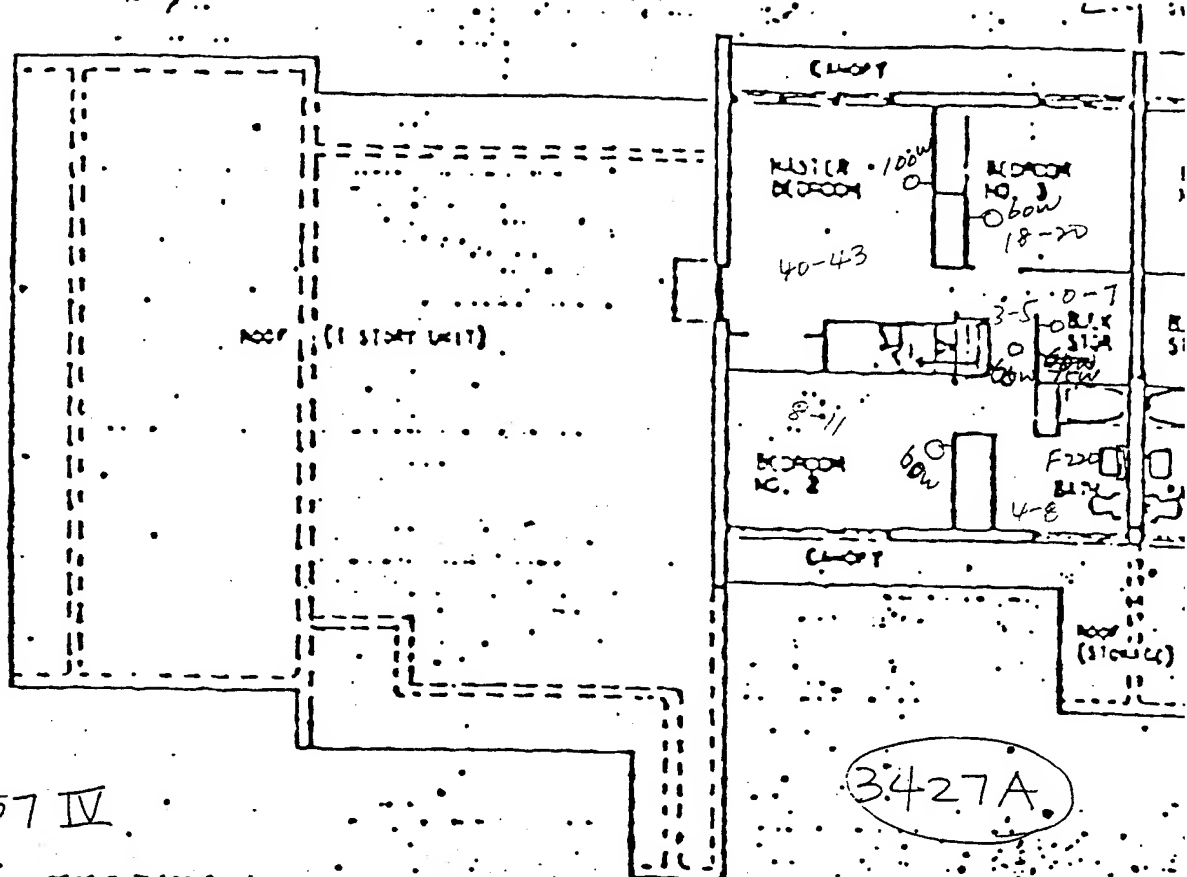
SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10

SEE TYPICAL FLOOR 3
SEE SET NO. 10

| REVISIONS | | | |
|---|----|----|----|
| FAMILY HOUSING | | | |
| DECEMBER DATA FOR AIR CONDITIONING PROJECTS | | | |
| CAPTAIN HOUSING SCHEDULE 1957 AREA E-1 | | | |
| FIRST AND SECOND FLOOR PLANS TYPE C | | | |
| SCHOOLFIELD BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| ENGINEERS OF ENCLOSURES | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 9294 | 25 | 25 | 17 |

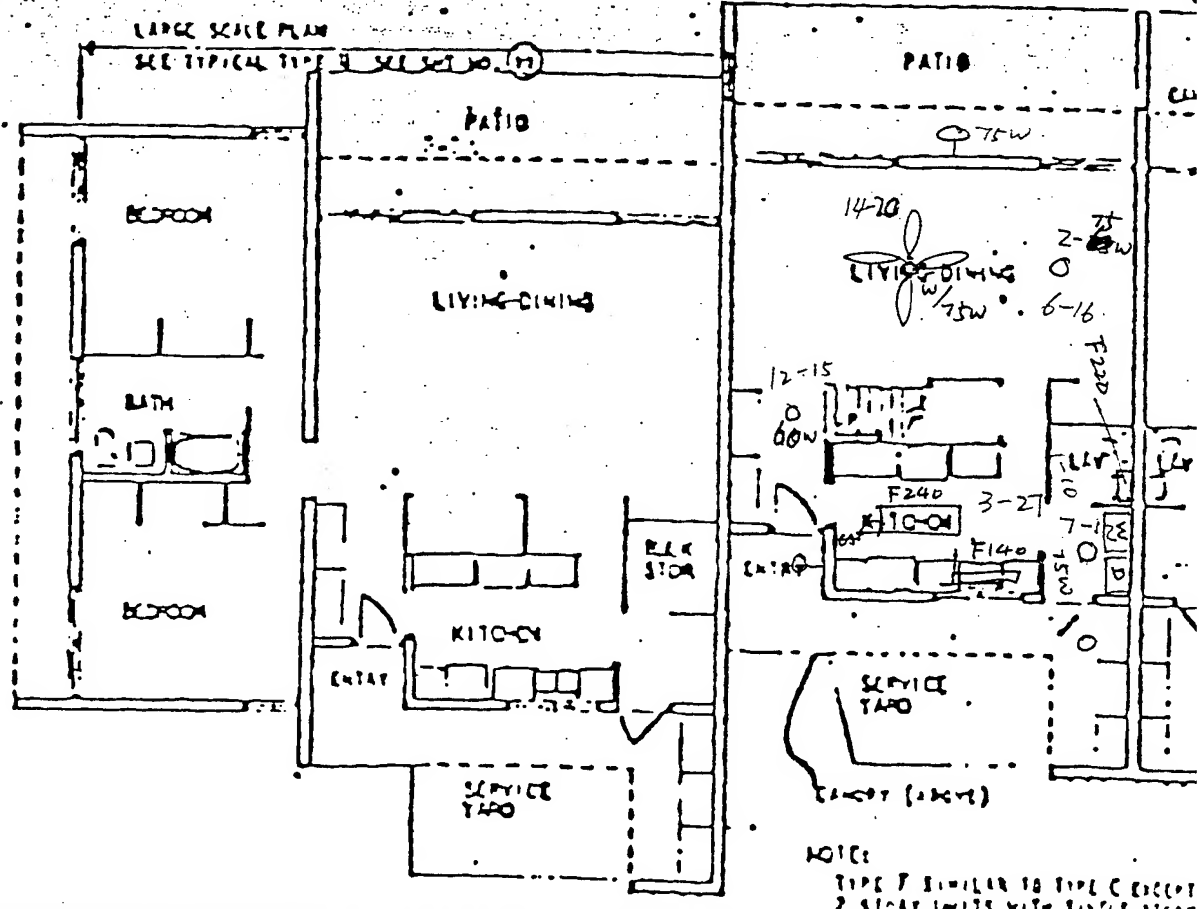


TYPE 57 IV & 57 IV

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

SEE ABOUT CENTERLINE 2'-0"

3427A



NOTE:
TYPE F SIMILAR TO TYPE C EXCEPT
2 STORY UNITS WITH SINGLE STORY

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3427
Building Type: 57-IV
Apartment: B
No. Bedrooms: 3
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: ALL DAY
No. of Occupants: 3
Average No. of Showers/Day: 6
Average No. of Laundry Loads/Week: 4
Average No. of Times Dishwasher Used/Day: Not Used
Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as S7-III

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
✓ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

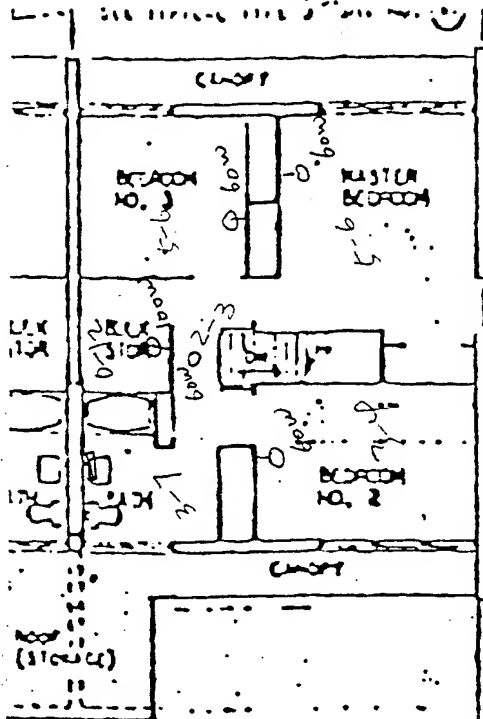
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

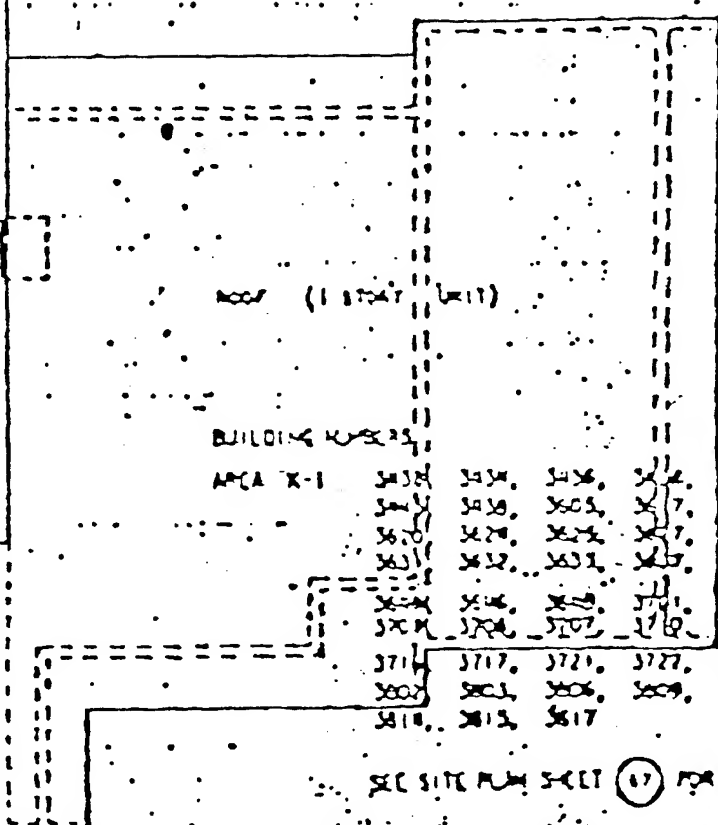
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|--------|-------------|---------|
| Kit. sk | 22/10s | 116 | |
| Bathroom Shwr | 22/10s | 112 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



3427 B



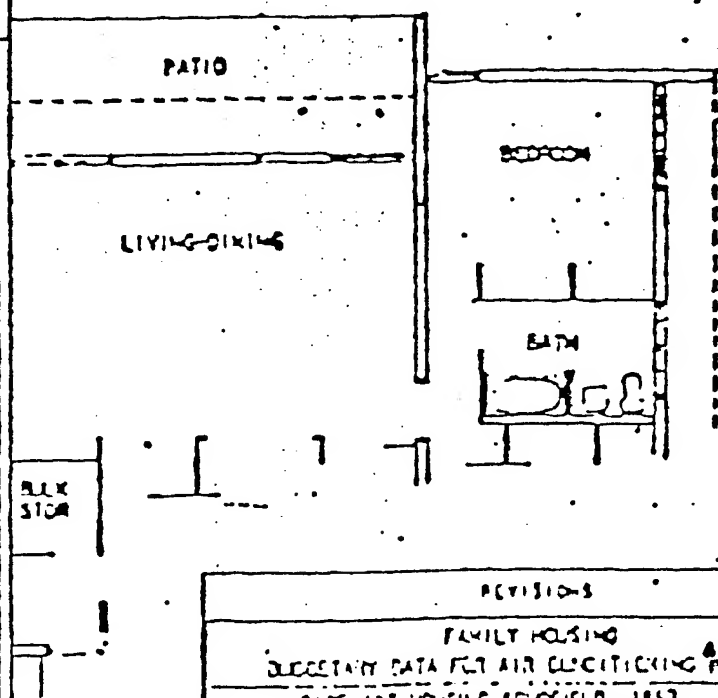
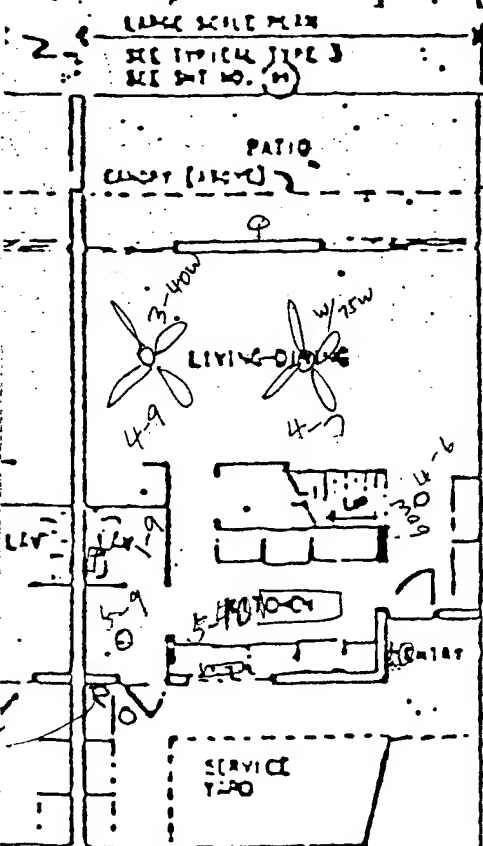
BUILDING NO. 23

AREA X-1

| | | | | |
|------|------|------|------|------|
| 3430 | 3431 | 3432 | 3433 | 3434 |
| 3435 | 3436 | 3437 | 3438 | 3439 |
| 3440 | 3441 | 3442 | 3443 | 3444 |
| 3445 | 3446 | 3447 | 3448 | 3449 |
| 3450 | 3451 | 3452 | 3453 | 3454 |
| 3455 | 3456 | 3457 | 3458 | 3459 |
| 3460 | 3461 | 3462 | 3463 | 3464 |
| 3465 | 3466 | 3467 | 3468 | 3469 |
| 3470 | 3471 | 3472 | 3473 | 3474 |
| 3475 | 3476 | 3477 | 3478 | 3479 |
| 3480 | 3481 | 3482 | 3483 | 3484 |
| 3485 | 3486 | 3487 | 3488 | 3489 |
| 3490 | 3491 | 3492 | 3493 | 3494 |
| 3495 | 3496 | 3497 | 3498 | 3499 |

SEE SITE PLAN SHEET (17) FOR LOCATION

TYPE 57-V
57-IV



REVISIONS

| | |
|--|------------|
| FAMILY HOUSING | |
| SECRETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CHARTER HOUSING SCHEMATIC 1957 | AREA X-1 |
| FIRST AND SECOND FLOOR PLANS | TYPE C |
| SCHEMATIC BARBARS | DATE, NAME |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |

TYPE C EXCEPT THERE ARE FOUR

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3432

Building Type: 57-IV

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as 57. III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- 3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- (4)

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

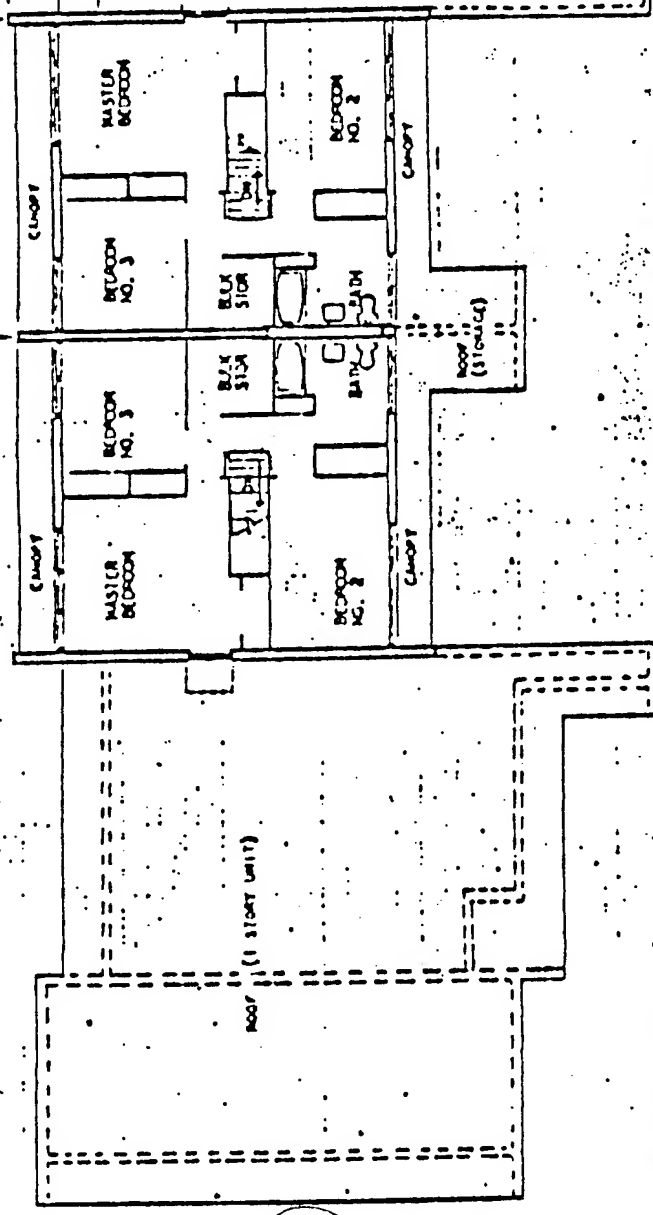
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| KIT. SK | 12/105 | 116 F | |
| | | | |
| | | | |
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(3432 D) 3432A

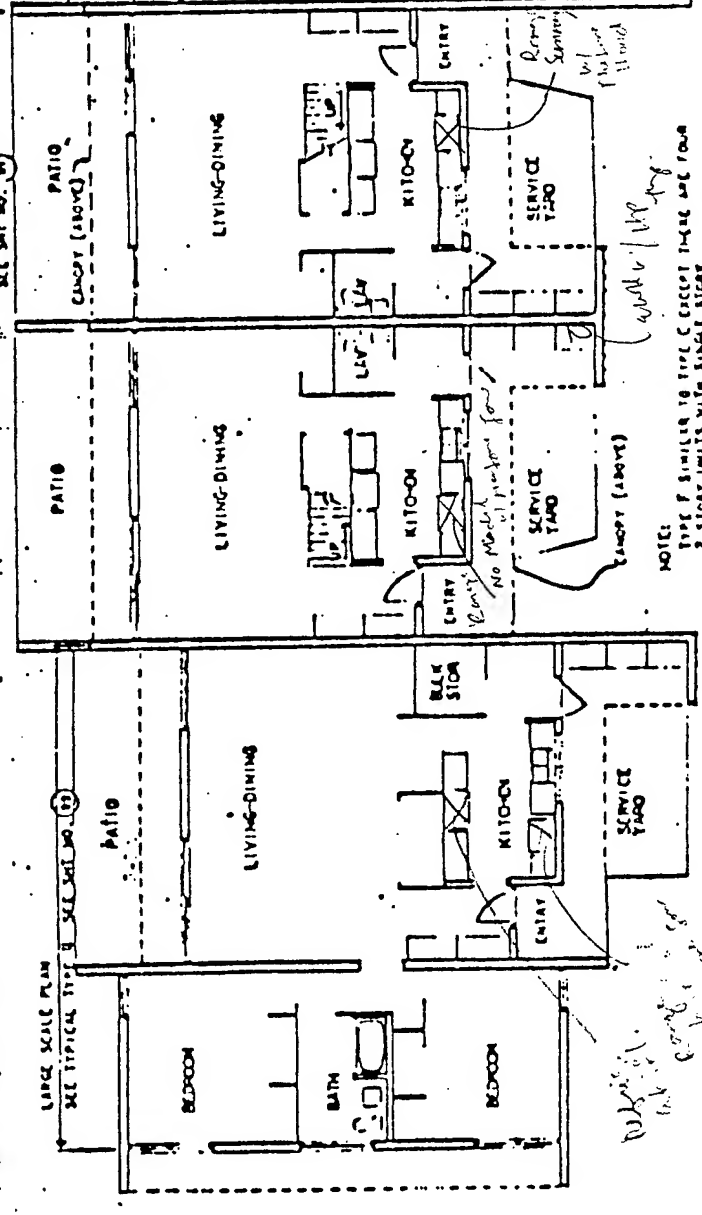


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

STN ABOUT CENTERLINE 2
LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SEE DET NO. 4

SEE SITE PLAN SHEET 17 FOR LOCATION

TYPE 57-V
57-IV



FIRST FLOOR PLAN

NOTE:
TYPE F SIMILAR TO TYPE C EXCEPT THERE ARE FOUR
2 STORY UNITS WITH SINGLE STORY
UNITS AT GROUND

| REVISIONS | | | |
|---|----|----|-----|
| 1 | 25 | 07 | 547 |
| FAMILY HOUSING | | | |
| SUCCESSION DATA FOR AIR CONDITIONING PROJECTS | | | |
| CAPITOL HOSPITAL SCHEDULE 1957 AREA E-1 | | | |
| FIRST AND SECOND FLOOR PLANS TYPE C | | | |
| SCHOOL BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |

1/8" = 1'-0"

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3432

Building Type: 57 - IV

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 3

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Sum 02 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Yes _____ No _____

Tinted ✓

Reflective Coating

same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

1) Condition of circular _____

2) Circulator capacity _____

3) Is aquastat provided?

4) Aquastat temperature setting _____

5) Mfg/Model _____

6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location _____

b. Areas Served _____ /

c.. Manufacturer and Model _____

d. Energy (Oil, Gas, Electric, Coal, Etc.) _____

e. Type Heaters & Quantities:

1) Storage _____

2) Instantaneous _____

3) Semi-Instantaneous _____

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

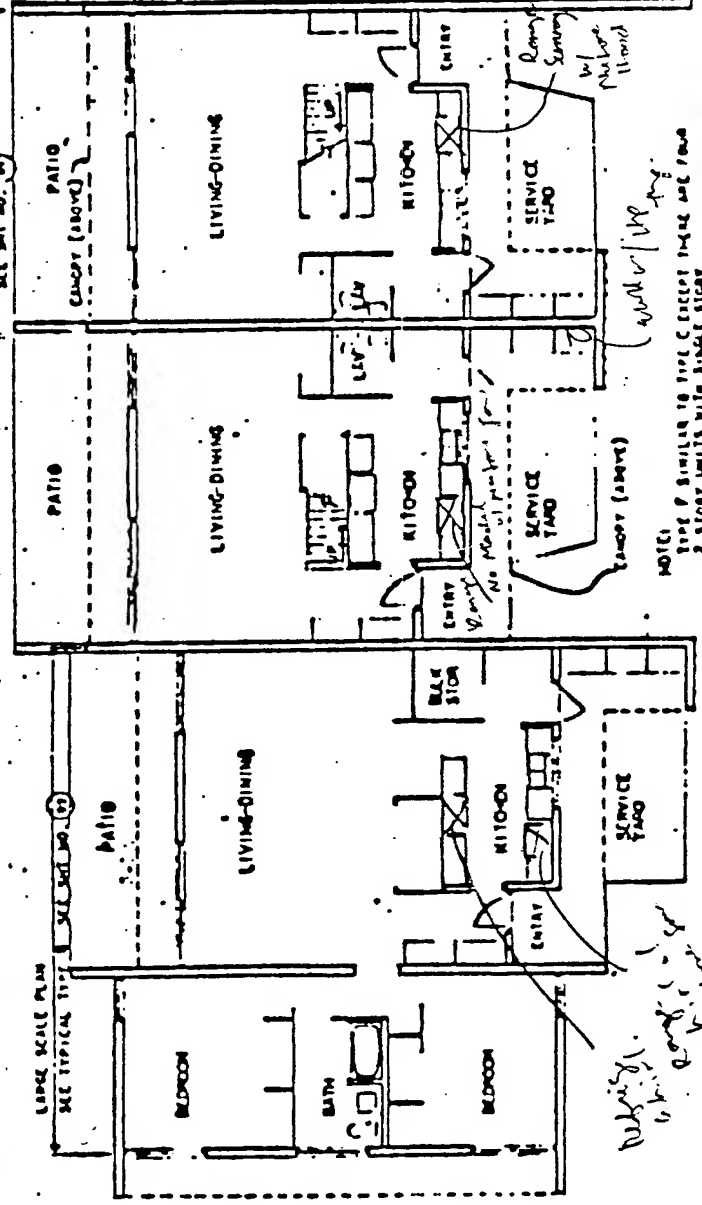
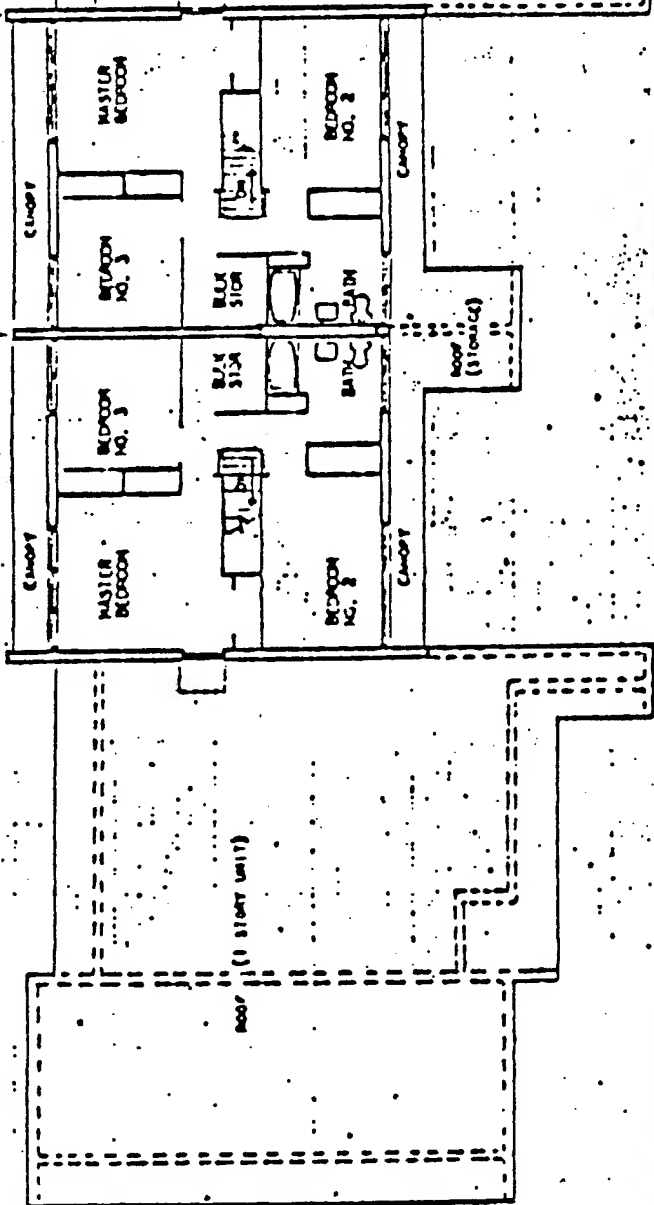
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit SK | 22/105 | 110 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

7-22-10



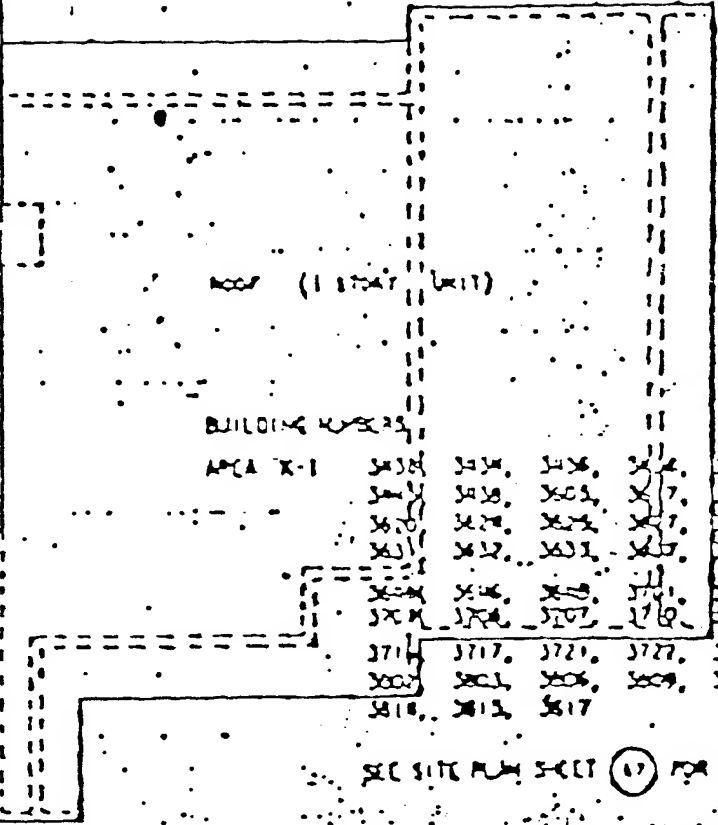
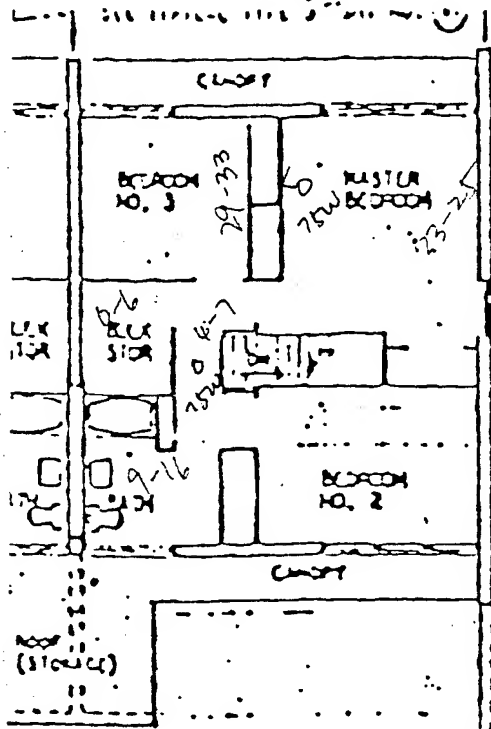
| | | | |
|---|----|--------------|----|
| PCTIONS | | | |
| FAMILY HOUSING | | | |
| SECRETARY DATA FOR AIR CURTAINING PROJECTS | | | |
| CAPENART HOUSING SCHOOL 1957 | | AREA E-1 | |
| FIRST AND SECOND FLOOR PLANS | | TYPE C | |
| SCHOOL BARRACKS | | BOMU, HAWAII | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| GROUPS OF BUILDINGS | | | |
| MOOLEU, HAWAII | | | |
| LOC. CODE 9194 | 25 | 13 | 07 |
| | | | 17 |

SEE SITE PLAN SHEET 07 FOR LOCATION

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

STN ABOUT CANTONING - 2-
THE TYPICAL TYPE
WITH 2178 DOWNS

2012
Type of stimulus is not correct type and form
2 correct units with 1 single sign



| | | | | | |
|-----------------|------|------|------|------|------|
| BUILDING NO. 23 | | | | 11 | |
| AREA X-1 | 3438 | 3439 | 3440 | 3441 | 3442 |
| | 3443 | 3444 | 3445 | 3446 | 3447 |
| | 3448 | 3449 | 3450 | 3451 | 3452 |
| | 3453 | 3454 | 3455 | 3456 | 3457 |
| | 3458 | 3459 | 3460 | 3461 | 3462 |
| | 3463 | 3464 | 3465 | 3466 | 3467 |
| | 3468 | 3469 | 3470 | 3471 | 3472 |
| | 3473 | 3474 | 3475 | 3476 | 3477 |
| | 3478 | 3479 | 3480 | 3481 | 3482 |
| | 3483 | 3484 | 3485 | 3486 | 3487 |
| | 3488 | 3489 | 3490 | 3491 | 3492 |
| | 3493 | 3494 | 3495 | 3496 | 3497 |
| | 3498 | 3499 | 3500 | 3501 | 3502 |
| | 3503 | 3504 | 3505 | 3506 | 3507 |
| | 3508 | 3509 | 3510 | 3511 | 3512 |
| | 3513 | 3514 | 3515 | 3516 | 3517 |
| | 3518 | 3519 | 3520 | 3521 | 3522 |
| | 3523 | 3524 | 3525 | 3526 | 3527 |
| | 3528 | 3529 | 3530 | 3531 | 3532 |
| | 3533 | 3534 | 3535 | 3536 | 3537 |
| | 3538 | 3539 | 3540 | 3541 | 3542 |
| | 3543 | 3544 | 3545 | 3546 | 3547 |
| | 3548 | 3549 | 3550 | 3551 | 3552 |
| | 3553 | 3554 | 3555 | 3556 | 3557 |
| | 3558 | 3559 | 3560 | 3561 | 3562 |
| | 3563 | 3564 | 3565 | 3566 | 3567 |
| | 3568 | 3569 | 3570 | 3571 | 3572 |
| | 3573 | 3574 | 3575 | 3576 | 3577 |
| | 3578 | 3579 | 3580 | 3581 | 3582 |
| | 3583 | 3584 | 3585 | 3586 | 3587 |
| | 3588 | 3589 | 3590 | 3591 | 3592 |
| | 3593 | 3594 | 3595 | 3596 | 3597 |
| | 3598 | 3599 | 3600 | 3601 | 3602 |
| | 3603 | 3604 | 3605 | 3606 | 3607 |
| | 3608 | 3609 | 3610 | 3611 | 3612 |
| | 3613 | 3614 | 3615 | 3616 | 3617 |
| | 3618 | 3619 | 3620 | 3621 | 3622 |
| | 3623 | 3624 | 3625 | 3626 | 3627 |
| | 3628 | 3629 | 3630 | 3631 | 3632 |
| | 3633 | 3634 | 3635 | 3636 | 3637 |
| | 3638 | 3639 | 3640 | 3641 | 3642 |
| | 3643 | 3644 | 3645 | 3646 | 3647 |
| | 3648 | 3649 | 3650 | 3651 | 3652 |
| | 3653 | 3654 | 3655 | 3656 | 3657 |
| | 3658 | 3659 | 3660 | 3661 | 3662 |
| | 3663 | 3664 | 3665 | 3666 | 3667 |
| | 3668 | 3669 | 3670 | 3671 | 3672 |
| | 3673 | 3674 | 3675 | 3676 | 3677 |
| | 3678 | 3679 | 3680 | 3681 | 3682 |
| | 3683 | 3684 | 3685 | 3686 | 3687 |
| | 3688 | 3689 | 3690 | 3691 | 3692 |
| | 3693 | 3694 | 3695 | 3696 | 3697 |
| | 3698 | 3699 | 3700 | 3701 | 3702 |
| | 3703 | 3704 | 3705 | 3706 | 3707 |
| | 3708 | 3709 | 3710 | 3711 | 3712 |
| | 3713 | 3714 | 3715 | 3716 | 3717 |
| | 3718 | 3719 | 3720 | 3721 | 3722 |
| | 3723 | 3724 | 3725 | 3726 | 3727 |
| | 3728 | 3729 | 3730 | 3731 | 3732 |
| | 3733 | 3734 | 3735 | 3736 | 3737 |
| | 3738 | 3739 | 3740 | 3741 | 3742 |
| | 3743 | 3744 | 3745 | 3746 | 3747 |
| | 3748 | 3749 | 3750 | 3751 | 3752 |
| | 3753 | 3754 | 3755 | 3756 | 3757 |
| | 3758 | 3759 | 3760 | 3761 | 3762 |
| | 3763 | 3764 | 3765 | 3766 | 3767 |
| | 3768 | 3769 | 3770 | 3771 | 3772 |
| | 3773 | 3774 | 3775 | 3776 | 3777 |
| | 3778 | 3779 | 3780 | 3781 | 3782 |
| | 3783 | 3784 | 3785 | 3786 | 3787 |
| | 3788 | 3789 | 3790 | 3791 | 3792 |
| | 3793 | 3794 | 3795 | 3796 | 3797 |
| | 3798 | 3799 | 3800 | 3801 | 3802 |
| | 3803 | 3804 | 3805 | 3806 | 3807 |
| | 3808 | 3809 | 3810 | 3811 | 3812 |
| | 3813 | 3814 | 3815 | 3816 | 3817 |
| | 3818 | 3819 | 3820 | 3821 | 3822 |
| | 3823 | 3824 | 3825 | 3826 | 3827 |
| | 3828 | 3829 | 3830 | 3831 | 3832 |
| | 3833 | 3834 | 3835 | 3836 | 3837 |
| | 3838 | 3839 | 3840 | 3841 | 3842 |
| | 3843 | 3844 | 3845 | 3846 | 3847 |
| | 3848 | 3849 | 3850 | 3851 | 3852 |
| | 3853 | 3854 | 3855 | 3856 | 3857 |
| | 3858 | 3859 | 3860 | 3861 | 3862 |
| | 3863 | 3864 | 3865 | 3866 | 3867 |
| | 3868 | 3869 | 3870 | 3871 | 3872 |
| | 3873 | 3874 | 3875 | 3876 | 3877 |
| | 3878 | 3879 | 3880 | 3881 | 3882 |
| | 3883 | 3884 | 3885 | 3886 | 3887 |
| | 3888 | 3889 | 3890 | 3891 | 3892 |
| | 3893 | 3894 | 3895 | 3896 | 3897 |
| | 3898 | 3899 | 3900 | 3901 | 3902 |
| | 3903 | 3904 | 3905 | 3906 | 3907 |
| | 3908 | 3909 | 3910 | 3911 | 3912 |
| | 3913 | 3914 | 3915 | 3916 | 3917 |
| | 3918 | 3919 | 3920 | 3921 | 3922 |
| | 3923 | 3924 | 3925 | 3926 | 3927 |
| | 3928 | 3929 | 3930 | 3931 | 3932 |
| | 3933 | 3934 | 3935 | 3936 | 3937 |
| | 3938 | 3939 | 3940 | 3941 | 3942 |
| | 3943 | 3944 | 3945 | 3946 | 3947 |
| | 3948 | 3949 | 3950 | 3951 | 3952 |
| | 3953 | 3954 | 3955 | 3956 | 3957 |
| | 3958 | 3959 | 3960 | 3961 | 3962 |
| | 3963 | 3964 | 3965 | 3966 | 3967 |
| | 3968 | 3969 | 3970 | 3971 | 3972 |
| | 3973 | 3974 | 3975 | 3976 | 3977 |
| | 3978 | 3979 | 3980 | 3981 | 3982 |
| | 3983 | 3984 | 3985 | 3986 | 3987 |
| | 3988 | 3989 | 3990 | 3991 | 3992 |
| | 3993 | 3994 | 3995 | 3996 | 3997 |
| | 3998 | 3999 | 4000 | 4001 | 4002 |
| | 4003 | 4004 | 4005 | 4006 | 4007 |
| | 4008 | 4009 | 4010 | 4011 | 4012 |
| | 4013 | 4014 | 4015 | 4016 | 4017 |
| | 4018 | 4019 | 4020 | 4021 | 4022 |
| | 4023 | 4024 | 4025 | 4026 | 4027 |
| | 4028 | 4029 | 4030 | 4031 | 4032 |
| | 4033 | 4034 | 4035 | 4036 | 4037 |
| | 4038 | 4039 | 4040 | 4041 | 4042 |
| | 4043 | 4044 | 4045 | 4046 | 4047 |
| | 4048 | 4049 | 4050 | 4051 | 4052 |
| | 4053 | 4054 | 4055 | 4056 | 4057 |
| | 4058 | 4059 | 4060 | 4061 | 4062 |
| | 4063 | 4064 | 4065 | 4066 | 4067 |
| | 4068 | 4069 | 4070 | 4071 | 4072 |
| | 4073 | 4074 | 4075 | 4076 | 4077 |
| | 4078 | 4079 | 4080 | 4081 | 4082 |
| | 4083 | 4084 | 4085 | 4086 | 4087 |
| | 4088 | 4089 | 4090 | 4091 | 4092 |
| | 4093 | 4094 | 4095 | 4096 | 4097 |
| | 4098 | 4099 | 4100 | 4101 | 4102 |
| | 4103 | 4104 | 4105 | 4106 | 4107 |
| | 4108 | 4109 | 4110 | 4111 | 4112 |
| | 4113 | 4114 | 4115 | 4116 | 4117 |
| | 4118 | 4119 | 4120 | 4121 | 4122 |
| | 4123 | 4124 | 4125 | 4126 | 4127 |
| | 4128 | 4129 | 4130 | 4131 | 4132 |
| | 4133 | 4134 | 4135 | 4136 | 4137 |
| | 4138 | 4139 | 4140 | 4141 | 4142 |
| | 4143 | 4144 | 4145 | 4146 | 4147 |
| | 4148 | 4149 | 4150 | 4151 | 4152 |
| | 4153 | 4154 | 4155 | 4156 | 4157 |
| | 4158 | 4159 | 4160 | 4161 | 4162 |
| | 4163 | 4164 | 4165 | 4166 | 4167 |
| | 4168 | 4169 | 4170 | 4171 | 4172 |
| | 4173 | 4174 | 4175 | 4176 | 4177 |
| | 4178 | 4179 | 4180 | 4181 | 4182 |
| | 4183 | 4184 | 4185 | 4186 | 4187 |
| | 4188 | 4189 | 4190 | 4191 | 4192 |
| | 4193 | 4194 | 4195 | 4196 | 4197 |
| | 4198 | 4199 | 4200 | 4201 | 4202 |
| | 4203 | 4204 | 4205 | 4206 | 4207 |
| | 4208 | 4209 | 4210 | 4211 | 4212 |
| | 4213 | 4214 | 4215 | 4216 | 4217 |
| | 4218 | 4219 | 4220 | 4221 | 4222 |
| | 4223 | 4224 | 4225 | 4226 | 4227 |
| | 4228 | 4229 | 4230 | 4231 | 4232 |
| | 4233 | 4234 | 4235 | 4236 | 4237 |
| | 4238 | 4239 | 4240 | 4241 | 4242 |
| | 4243 | 4244 | 4245 | 4246 | 4247 |
| | 4248 | 4249 | 4250 | 4251 | 4252 |
| | 4253 | 4254 | 4255 | 4256 | 4257 |
| | 4258 | 4259 | 4260 | 4261 | 4262 |
| | 4263 | 4264 | 4265 | 4266 | 4267 |
| | 4268 | 4269 | 4270 | 4271 | 4272 |
| | 4273 | 4274 | 4275 | 4276 | 4277 |
| | 4278 | 4279 | 4280 | 4281 | 4282 |
| | 4283 | 4284 | 4285 | 4286 | 4287 |
| | 4288 | 4289 | 4290 | 4291 | 4292 |
| | 4293 | 4294 | 4295 | 4296 | 4297 |
| | 4298 | 4299 | 4300 | 4301 | 4302 |
| | 4303 | 4304 | 4305 | 4306 | 4307 |
| | 4308 | 4309 | 4310 | 4311 | 4312 |
| | 4313 | 4314 | 4315 | 4316 | 4317 |
| | 4318 | 4319 | 4320 | 4321 | 4322 |
| | 4323 | 4324 | 4325 | 4326 | 4327 |
| | 4328 | 4329 | 4330 | 4331 | 4332 |
| | 4333 | 4334 | 4335 | 4336 | 4337 |
| | 4338 | 4339 | 4340 | 4341 | 4342 |
| | 4343 | 4344 | 4345 | 4346 | 4347 |
| | 4348 | 4349 | 4350 | 4351 | 4352 |
| | 4353 | 4354 | 4355 | 4356 | 4357 |
| | 4358 | 4359 | 4360 | 4361 | 4362 |
| | 4363 | 4364 | 4365 | 4366 | 4367 |
| | 4368 | 4369 | 4370 | 4371 | 4372 |
| | 4373 | 4374 | 4375 | 4376 | 4377 |
| | 4378 | 4379 | 4380 | 4381 | 4382 |
| | 4383 | 4384 | 4385 | 4386 | 4387 |
| | 4388 | 4389 | 4390 | 4391 | 4392 |
| | 4393 | 4394 | 4395 | 4396 | 4397 |
| | 4398 | 4399 | 4400 | 4401 | 4402 |
| | 4403 | 4404 | 4405 | 4406 | 4407 |
| | 4408 | 4409 | 4410 | 4411 | 4412 |
| | 4413 | 4414 | 4415 | 4416 | 4417 |
| | 4418 | 4419 | 4420 | 4421 | 4422 |
| | 4423 | 4424 | 4425 | 4426 | 4427 |
| | 4428 | 4429 | 4430 | 4431 | 4432 |
| | 4433 | 4434 | 4435 | 4436 | 4437 |
| | 4438 | 4439 | 4440 | 4441 | 4442 |
| | 4443 | 4444 | 4445 | 4446 | 4447 |
| | 4448 | 4449 | 4450 | 4451 | 4452 |
| | 4453 | 4454 | 4455 | 4456 | 4457 |
| | 4458 | 4459 | 4460 | 4461 | 4462 |
| | 4463 | 4464 | 4465 | 4466 | 4467 |
| | 4468 | 4469 | 4470 | 4471 | 4472 |
| | 4473 | 4474 | 4475 | 4476 | 4477 |
| | 4478 | 4479 | 4480 | 4481 | 4482 |
| | 4483 | 4484 | 4485 | 4486 | 4487 |
| | 4488 | 4489 | 4490 | 4491 | 4492 |
| | 4493 | 4494 | 4495 | 4496 | 4497 |
| | 4498 | 4499 | 4500 | 4501 | 4502 |
| | 4503 | 4504 | 4505 | 4506 | 4507 |
| | 4508 | 4509 | 4510 | 4511 | 4512 |
| | 4513 | 4514 | 4515 | 4516 | 4517 |
| | 4518 | 4519 | 4520 | 4521 | 4522 |
| | 4523 | 4524 | 4525 | 4526 | 4527 |
| | 4528 | 4529 | 4530 | 4531 | 4532 |
| | 4533 | 4534 | 4535 | 4536 | 4537 |
| | 4538 | 4539 | 4540 | 4541 | 4542 |
| | 4543 | 4544 | 4545 | 4546 | 4547 |
| | 4548 | 4549 | 4550 | 4551 | 4552 |
| | 4553 | 4554 | 4555 | 4556 | 4557 |
| | 4558 | 4559 | 4560 | 4561 | 4562 |
| | 4563 | 4564 | 4565 | 4566 | 4567 |
| | 4568 | 4569 | 4570 | 4571 | 4572 |
| | 4573 | 4574 | 4575 | 4576 | 4577 |
| | 4578 | 4579 | 4580 | 4581 | 4582 |
| | 4583 | 4584 | 4585 | 4586 | 4587 |
| | 4588 | 4589 | 4590 | 4591 | 4592 |
| | 4593 | 4594 | 4595 | 4596 | 4597 |
| | 4598 | 4599 | 4600 | 4601 | |

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3433 B

Building Type: 57 - IV

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 2

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

same as 57-III

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- 3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- (4)

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

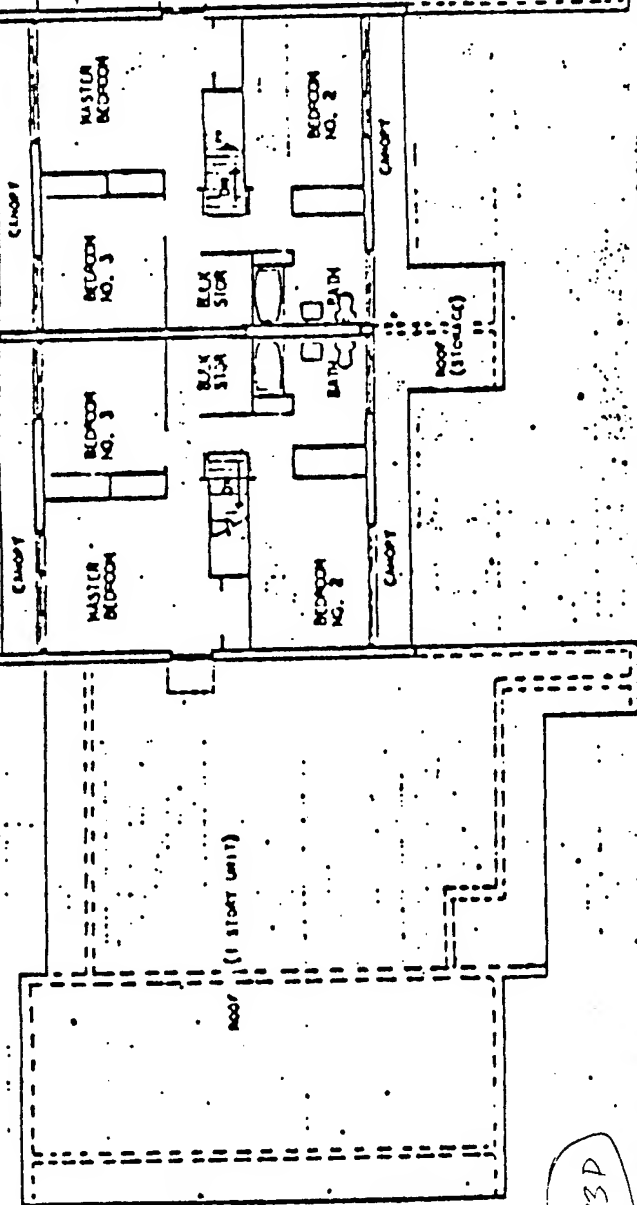
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

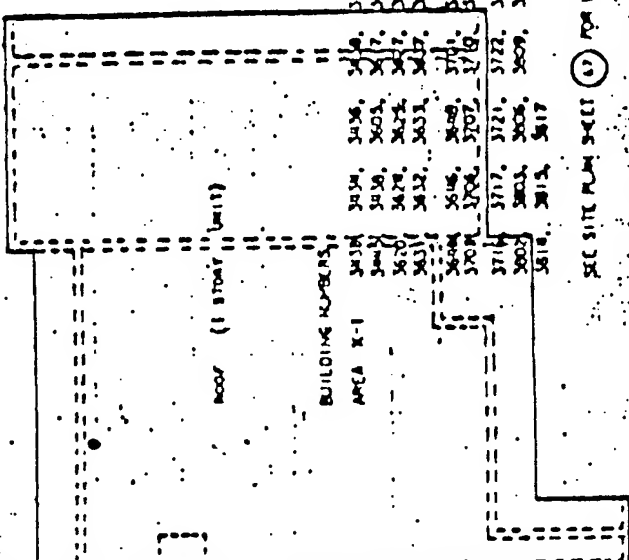
| Fixture | Flow | Water Temp. | Remarks |
|---------------|---------------------|-------------|---------|
| Kit. Sk | 2 ^l /10s | 130 | |
| Bathroom Shwr | 1 ^l /10s | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

34333b
12'0" x 12'0" x 12'0" x 12'0"



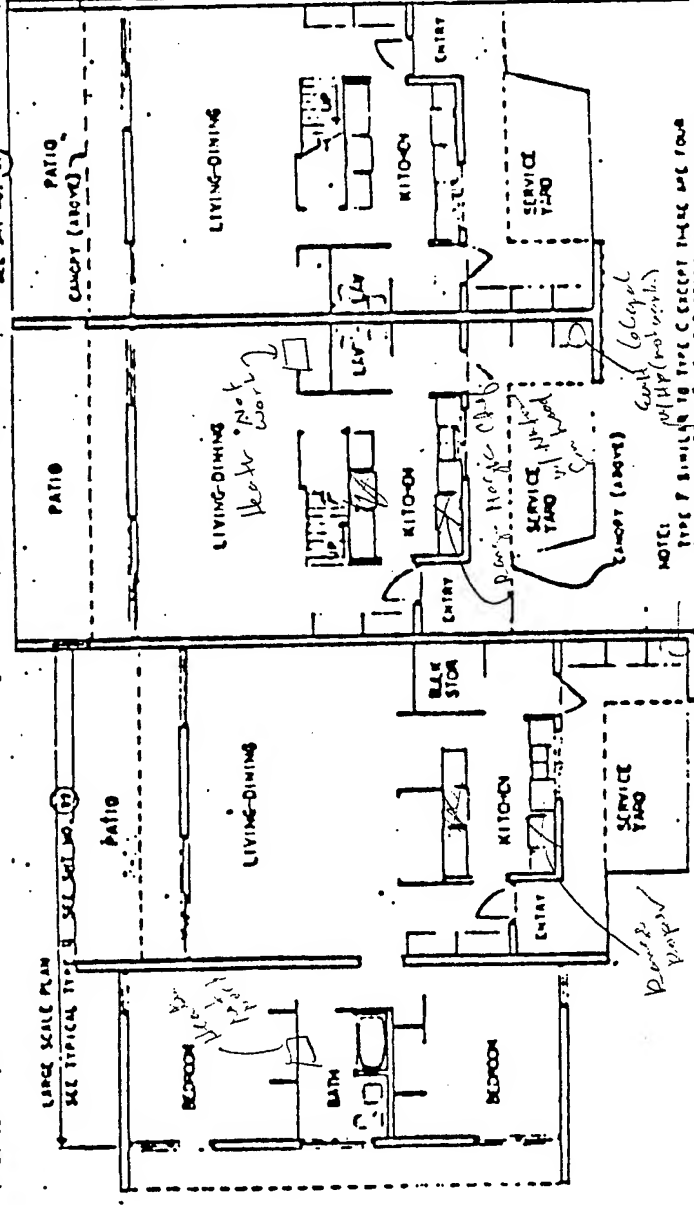
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

34333D



SEE SITE PLAN SHEET 17 FOR LOCATION

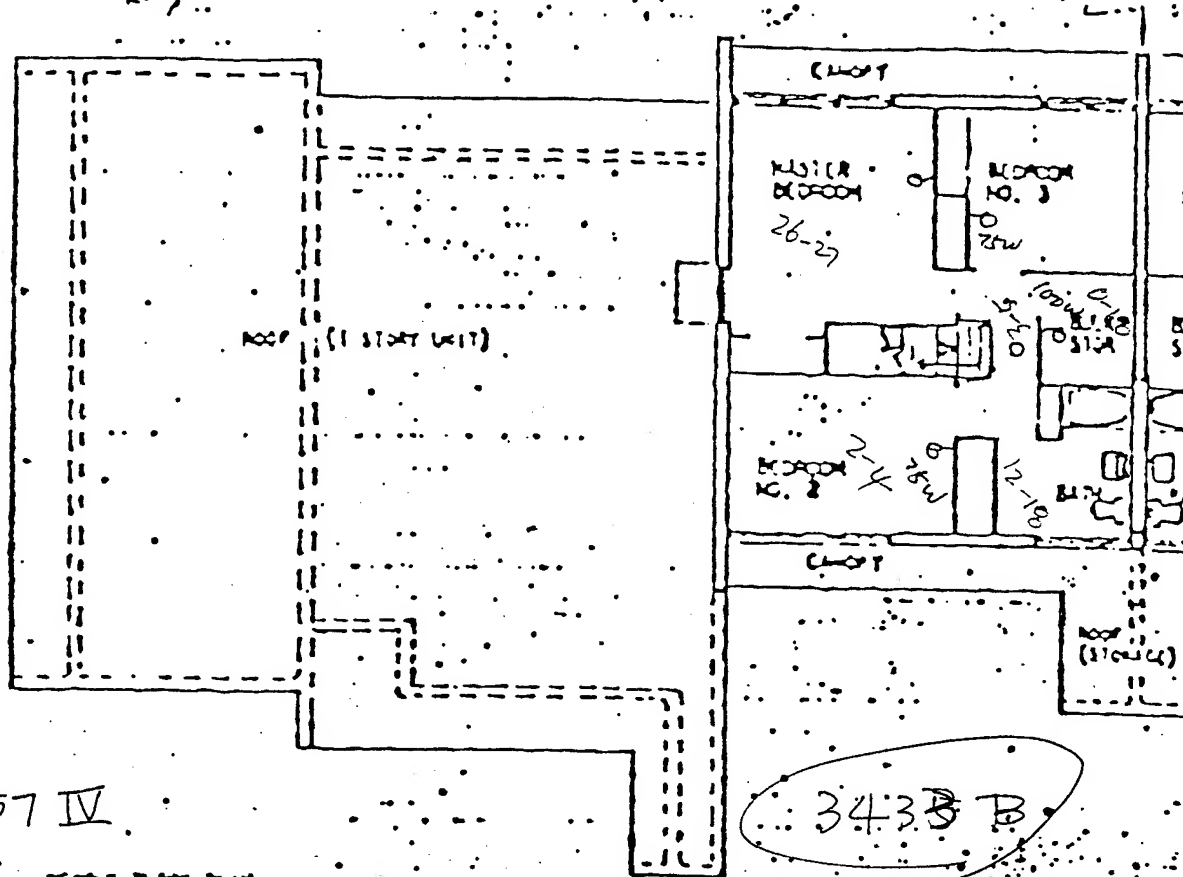
Type 57-V
57-IV



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

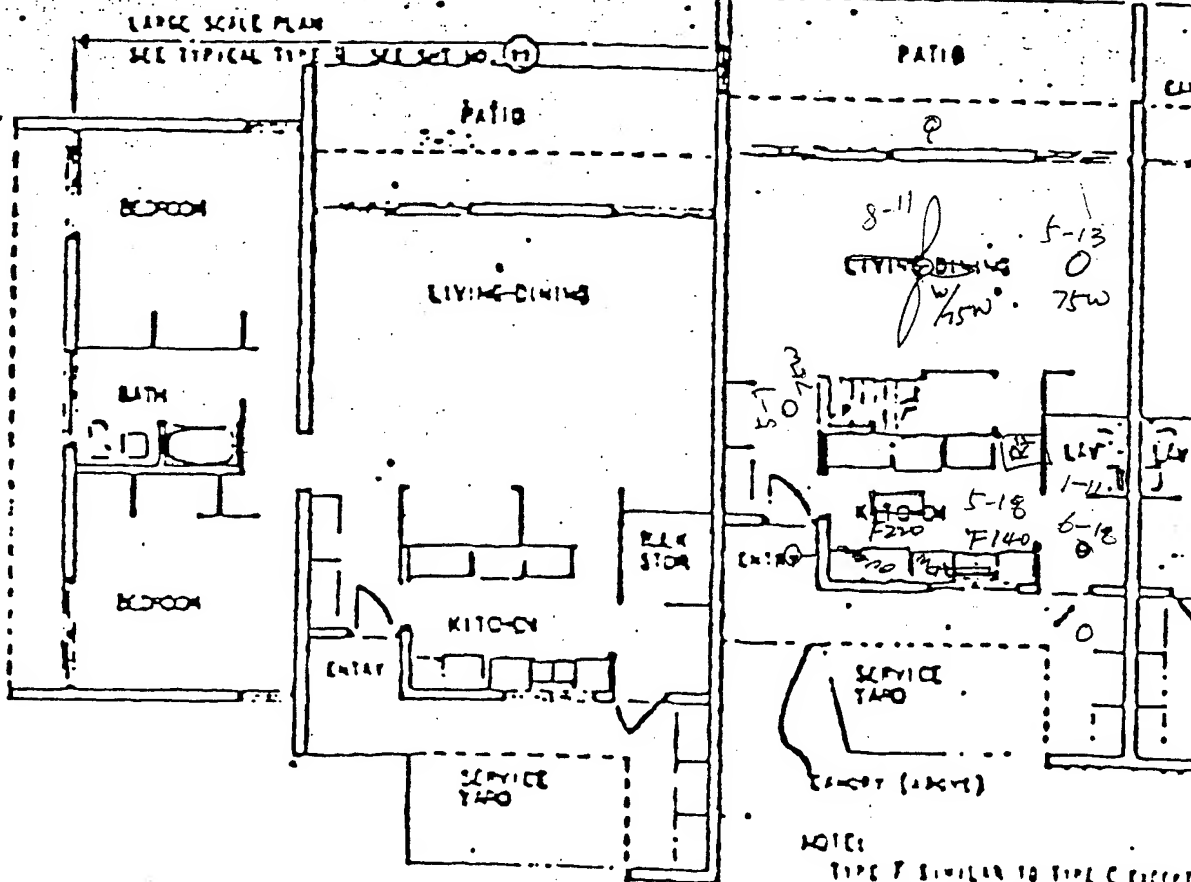
| REVISIONS | |
|--|---|
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CAMPBELL HOUSING SCHOOL 1957 AREA C-1 | |
| FIRST AND SECOND FLOOR PLANS | TYPE C |
| SCHOOL BARRACKS | 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000. |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN GROUP OF ENGINEERS | |
| MOORE, HANBELL | |

FIRST FLOOR PLAN



SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"



NOTE:

TYPE 57 SIMILAR TO TYPE C EXCEPT
2 STORY UNITS WITH SINGLE STORY

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3436

Building Type: 57-IV

Apartment: C

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

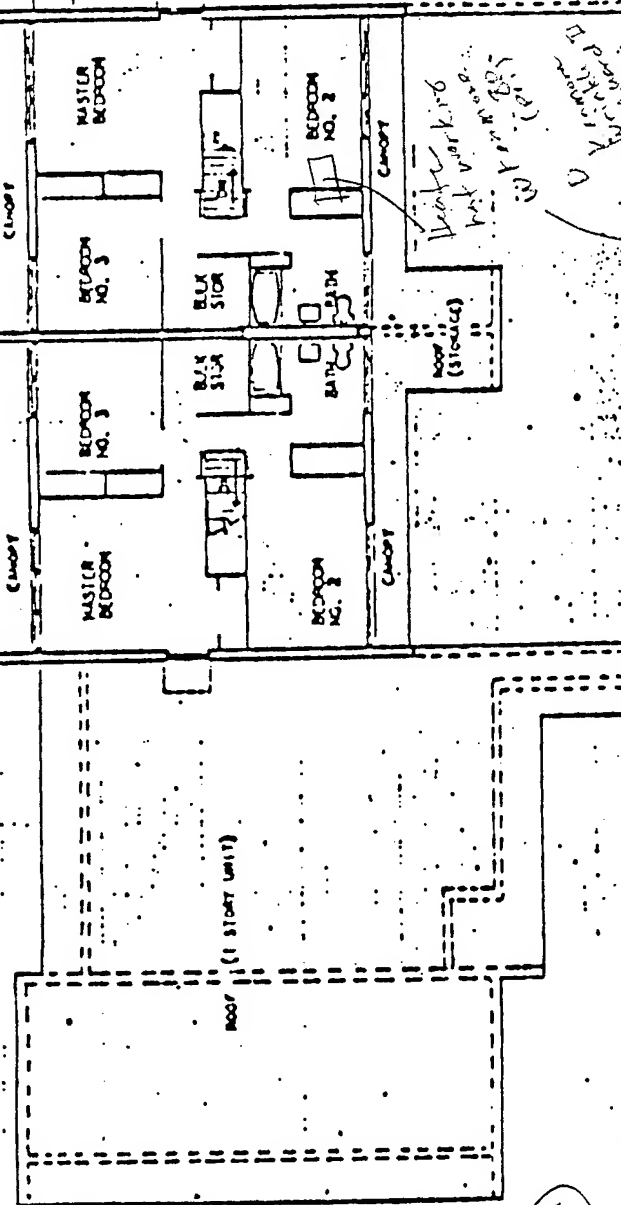
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

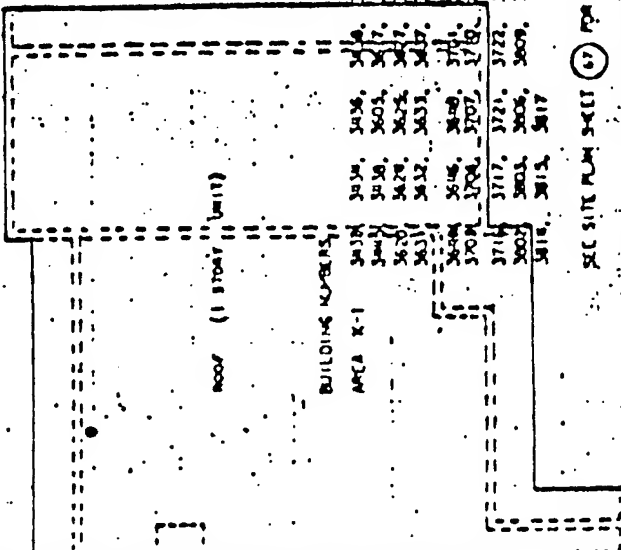
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|--------|-------------|---------|
| Kit Sk | 12/10s | 116 | |
| Bathroom Shwr | 12/10s | 116 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

NOTE: TYPE F SIMILAR TO TYPE C EXCEPT THERE ARE TWO 5'x10' UNITS AT EACH END OF CORRIDOR

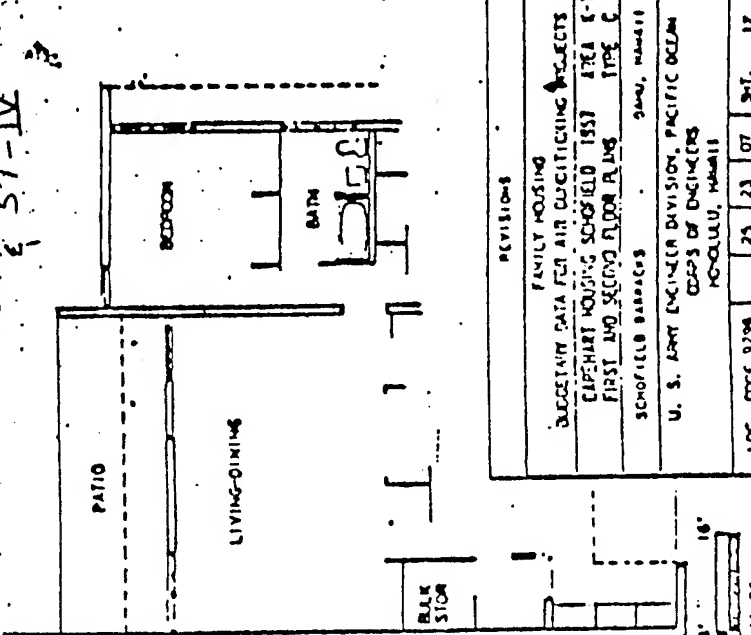
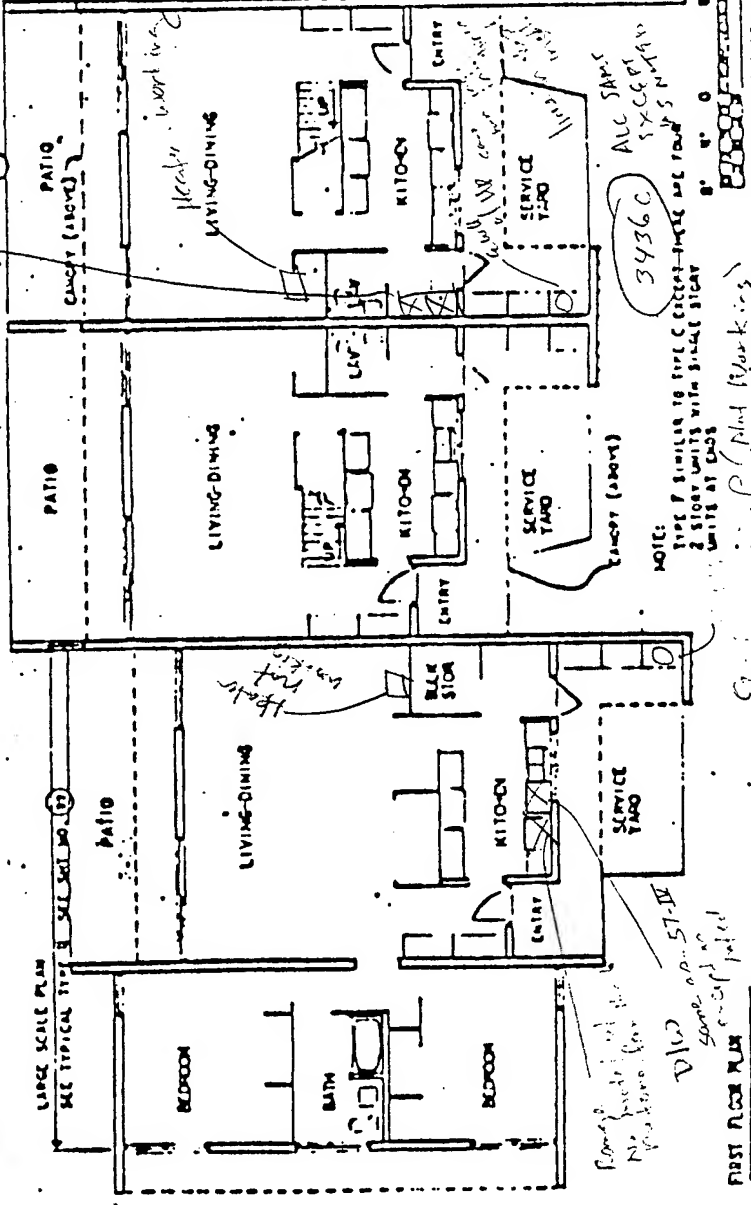
ALL SAMS EXCEPT 3436C

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4



NOTE: TYPE F SIMILAR TO TYPE C EXCEPT THERE ARE TWO 5'x10' UNITS AT EACH END OF CORRIDOR

ALL SAMS EXCEPT 3436C

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

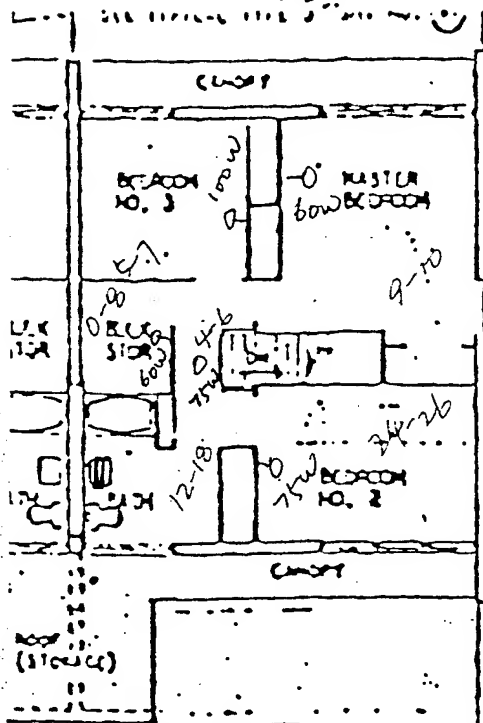
SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

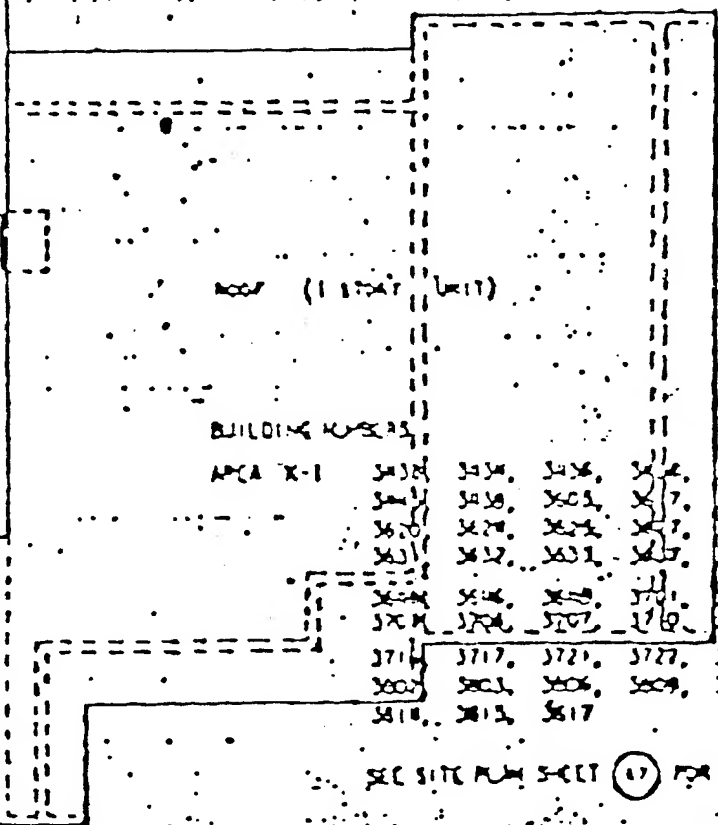
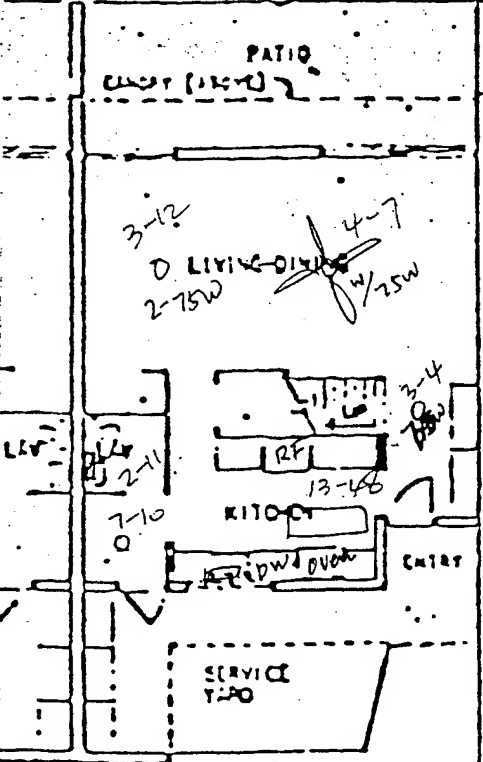
SEE TYPICAL FLOOR 3 SEE UNIT NO. 4

| REVISIONS | | | |
|---|----|----|----|
| FAMILY HOUSING | | | |
| SUGGESTION DATA FOR AIR CONDITIONING PROJECTS | | | |
| CUPERTIN HOUSING SCHOOL 1957 AREA E-1 | | | |
| FIRST AND SECOND FLOOR PLANS TYPE C | | | |
| SCHOOL BUILDINGS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| HEADQUARTERS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 9396 | 25 | 23 | 07 |
| | | | 17 |



3436C

SEE SCALE PLAN
SEE TYPICAL TYPE 3
SEE DET NO. 3



BUILDING NO. 35

| | | | | | |
|----------|------|------|------|------|------|
| AREA K-1 | 3436 | 3437 | 3438 | 3439 | 3440 |
| | 3441 | 3442 | 3443 | 3444 | 3445 |
| | 3446 | 3447 | 3448 | 3449 | 3450 |
| | 3451 | 3452 | 3453 | 3454 | 3455 |
| | 3456 | 3457 | 3458 | 3459 | 3460 |
| | 3461 | 3462 | 3463 | 3464 | 3465 |
| | 3466 | 3467 | 3468 | 3469 | 3470 |
| | 3471 | 3472 | 3473 | 3474 | 3475 |
| | 3476 | 3477 | 3478 | 3479 | 3480 |
| | 3481 | 3482 | 3483 | 3484 | 3485 |
| | 3486 | 3487 | 3488 | 3489 | 3490 |
| | 3491 | 3492 | 3493 | 3494 | 3495 |
| | 3496 | 3497 | 3498 | 3499 | 3500 |

SEE SITE PLAN SHEET (17) FOR LOCATION

TYPE 57-V
& 57-IV

REVISIONS

| | |
|---|---------------|
| FAMILY HOUSING | |
| SECRETARY DATA FOR AIR CLASSIFYING PROJECTS | |
| CHIEF OF HOUSING SCHOOL 1957 | AREA K-1 |
| FIRST AND SECOND FLOOR PLANS | TYPE C |
| SCHOOL BUILDINGS | DAVID, MARILL |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |

TYPE C EXCEPT THERE ARE FOUR

UNIT TYPE 57-V

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3432

Building Type: 57-V

Apartment: 4

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 6 pm on

No. of Occupants: 2

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 3

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-II

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

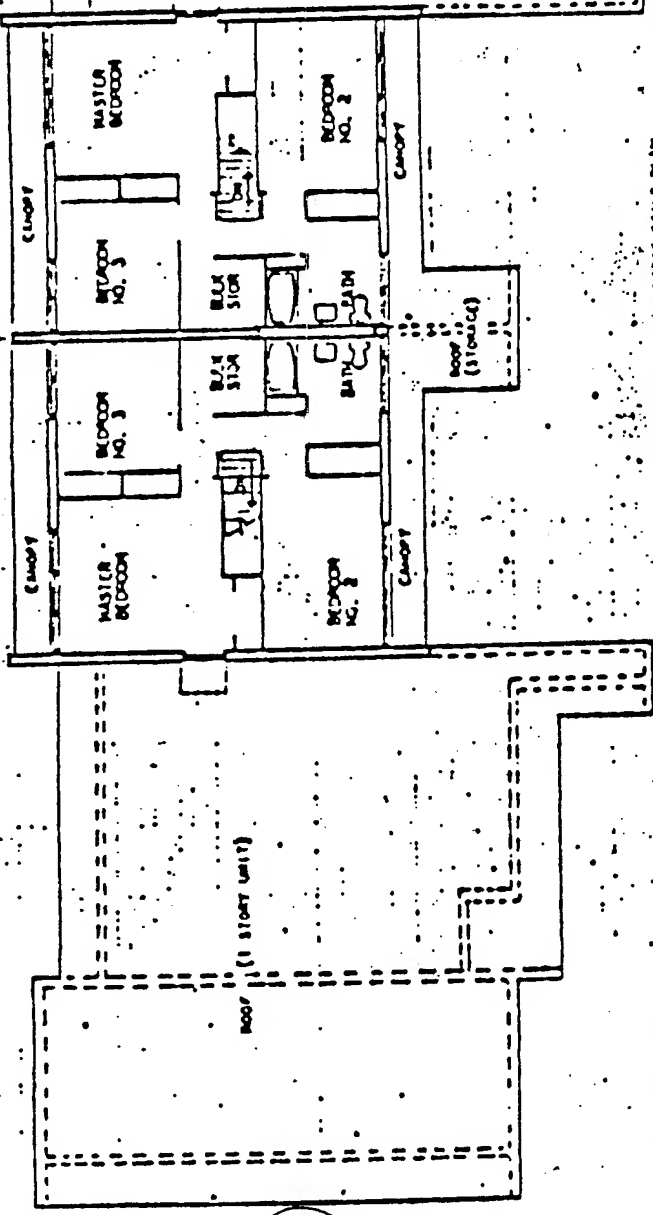
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

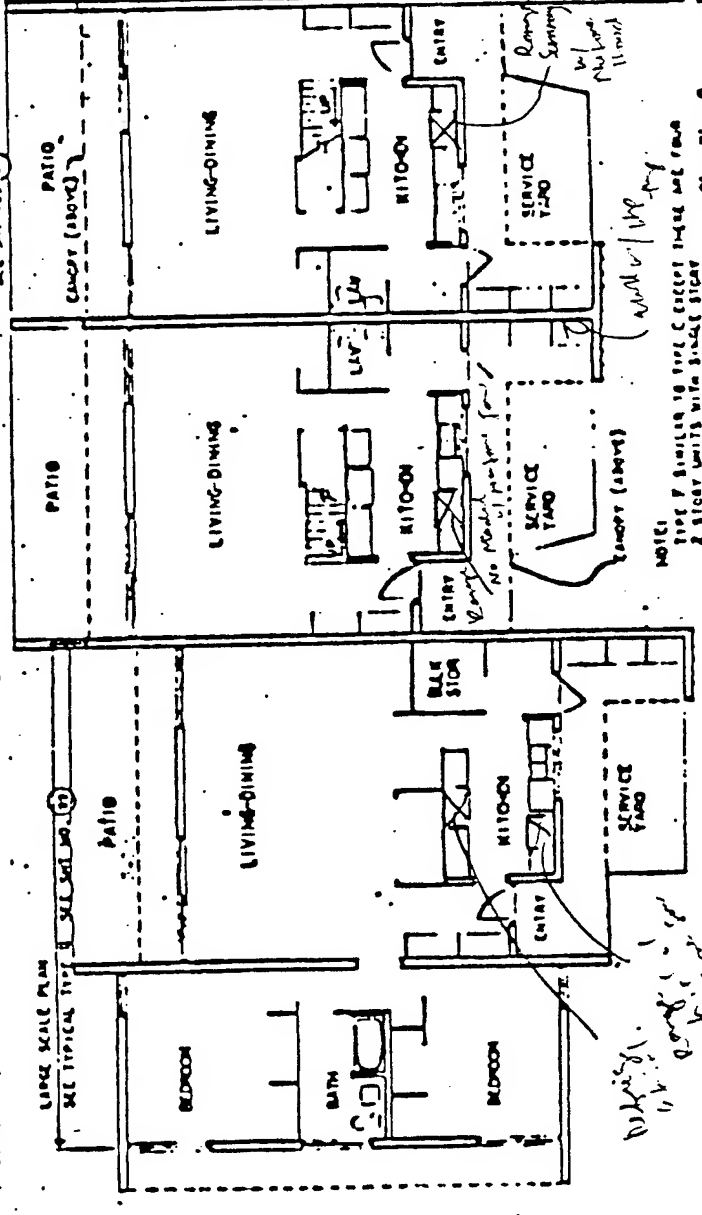
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------------------|
| Kit sk | 12/105 | 118 | Faucet Head changed |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

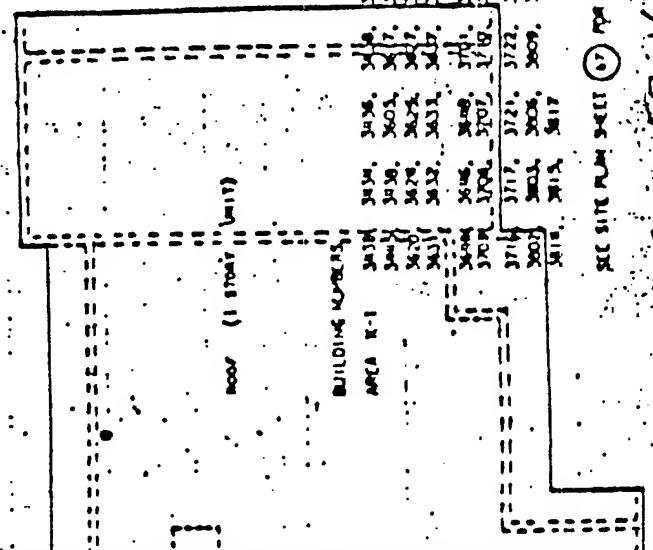
(3432 D) → 3432A



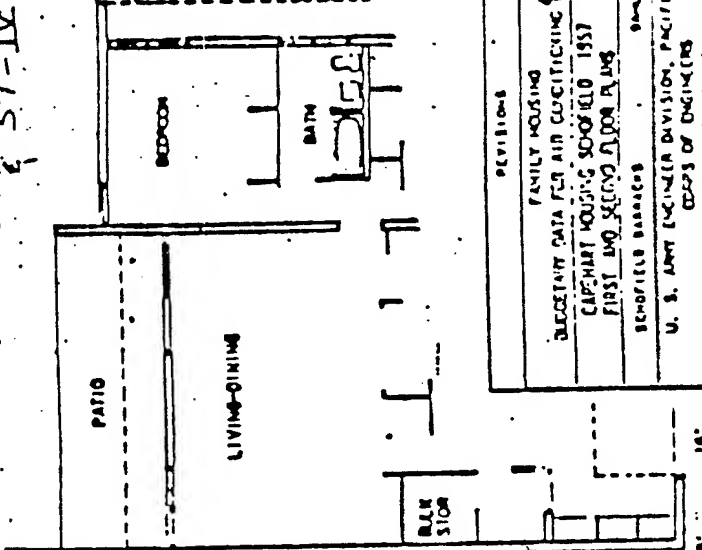
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

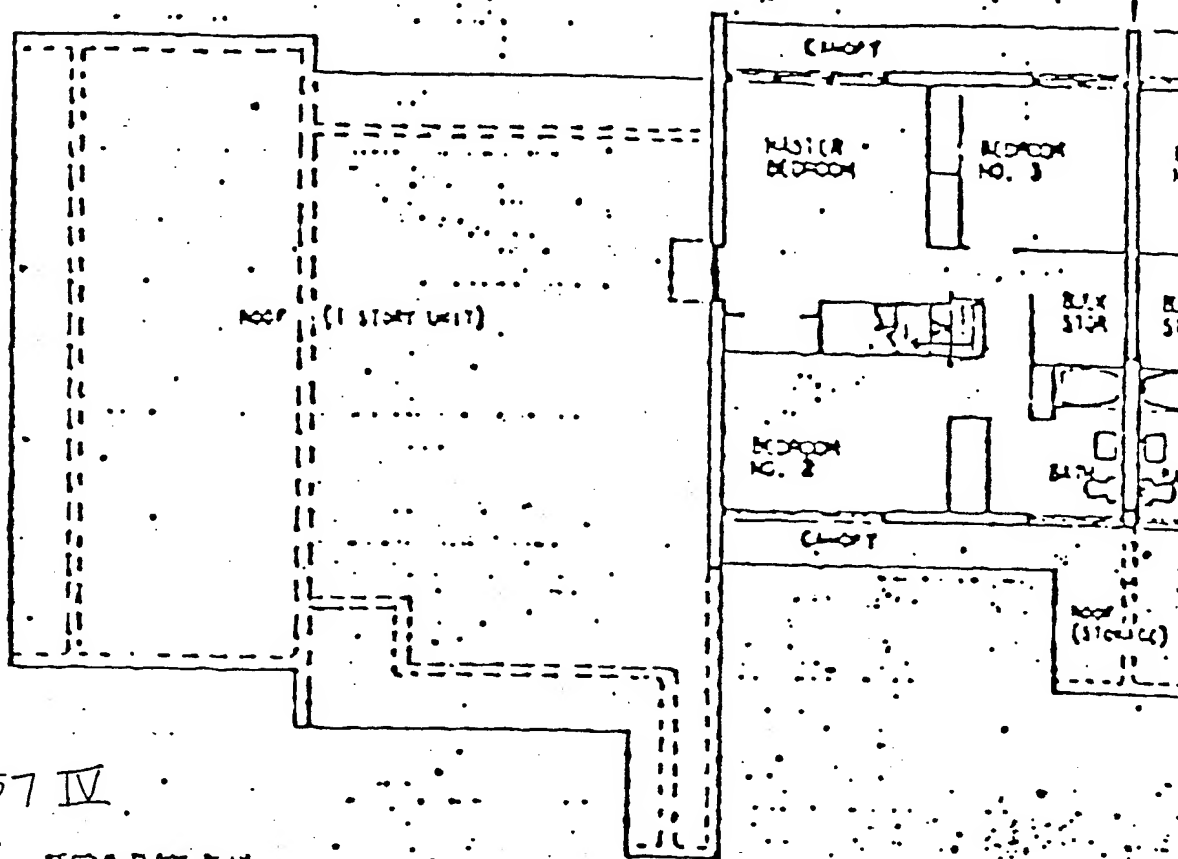
SEE SITE PLAN SHEET 67 FOR LOCATION

TYPE 57-V
57-IV

| REVISIONS | | | |
|---|----|-----|----|
| FAMILY HOUSING | | | |
| RECENT DATA FOR AIR CONDITIONING PROJECTS | | | |
| CAPITOL HOSPITAL SCHEDULE 1957 AREA E-1 | | | |
| FIRST TWO SECOND FLOOR PLANS TYPE C | | | |
| SCHOOL BUILDINGS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| HEADS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| DATE | BY | NO. | 17 |

NOTE: TYPE 7 SIMILAR TO TYPE C EXCEPT THERE ARE TWO 2 STORY UNITS WITH SINGLE STORY UNITS AT EACH

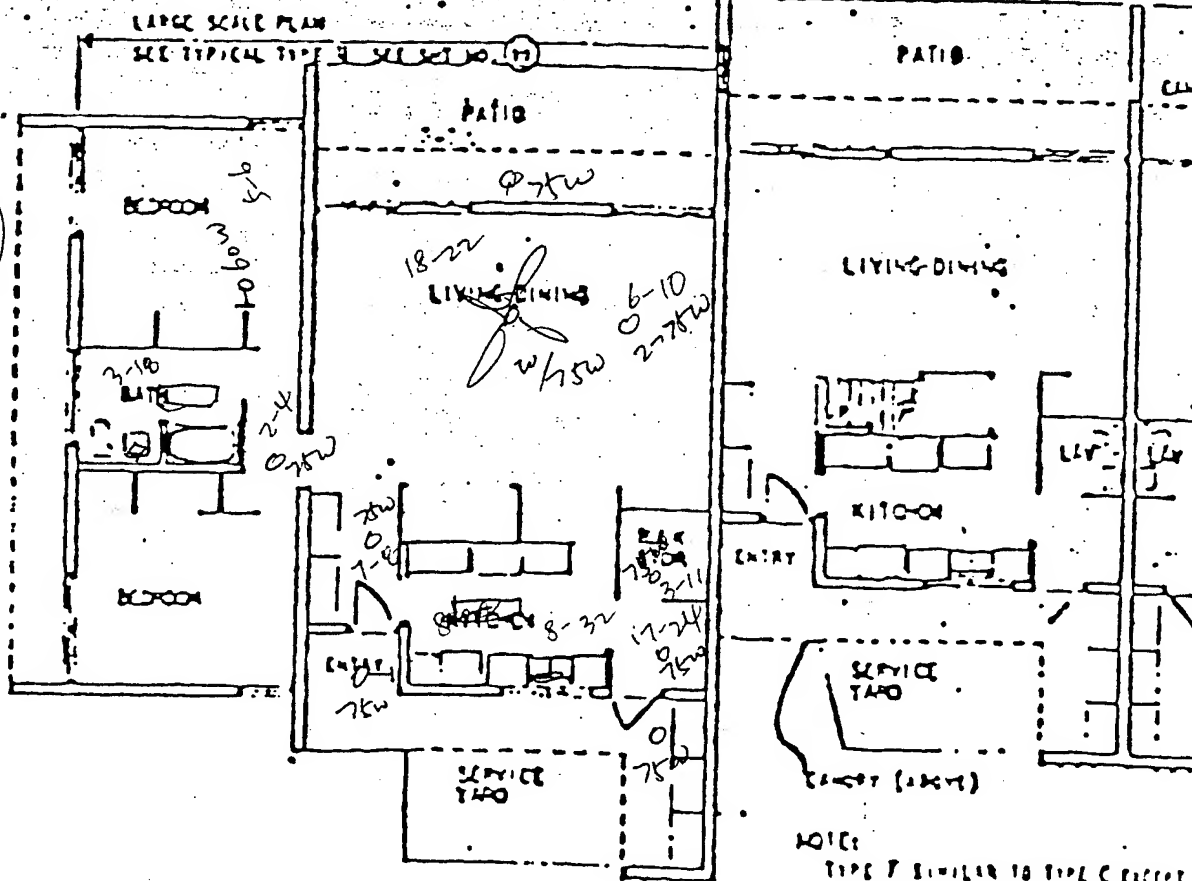
10' 0" 8' 0" 10' 0"



TYPE 57 IV & 57 IV

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

SEE ABOUT CENTER LINE 2



3432 E
VWVWse

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3433D

Building Type: 57-V

Apartment: D

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

same as 57-19

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as 57-21

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

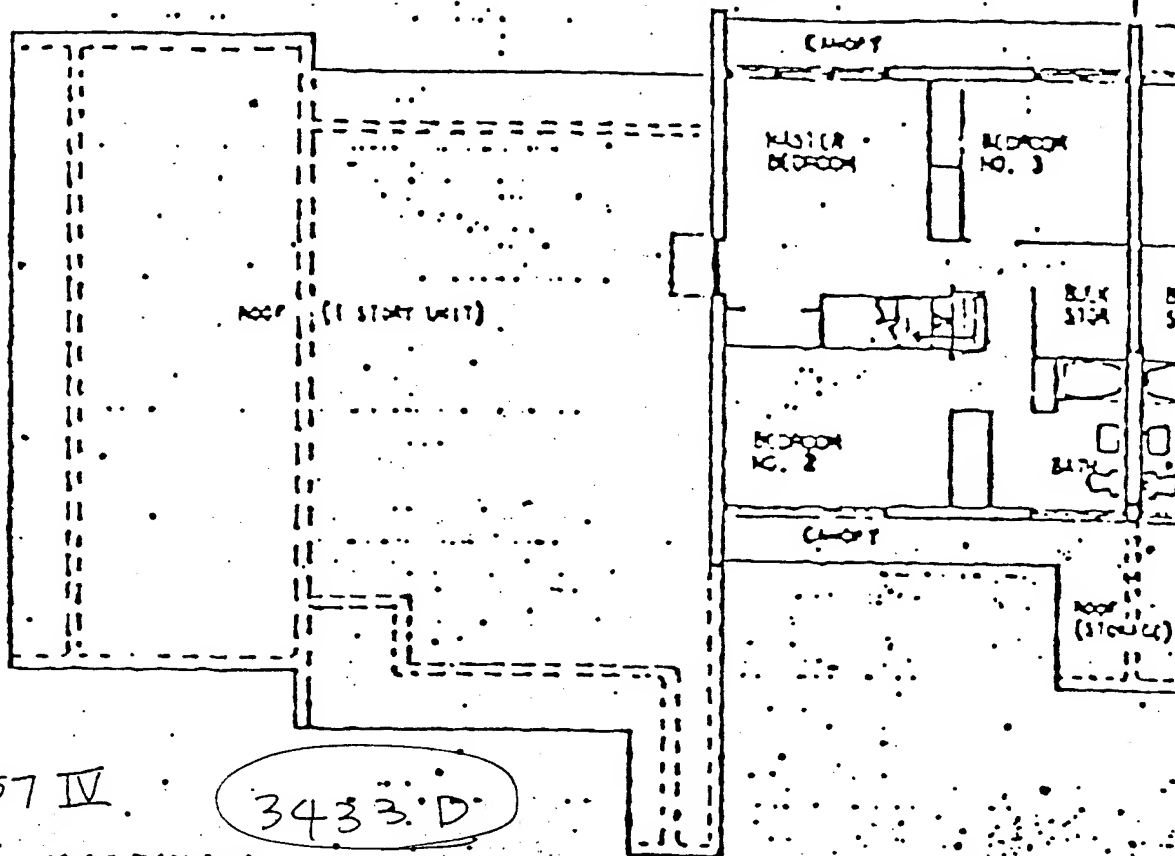
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|----------|-------------|---------|
| Kit SK | 1.5l/10s | 98° | |
| Bathroom Shwr | 3l/10s | 98 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



TYPE 57 V & 57 IV

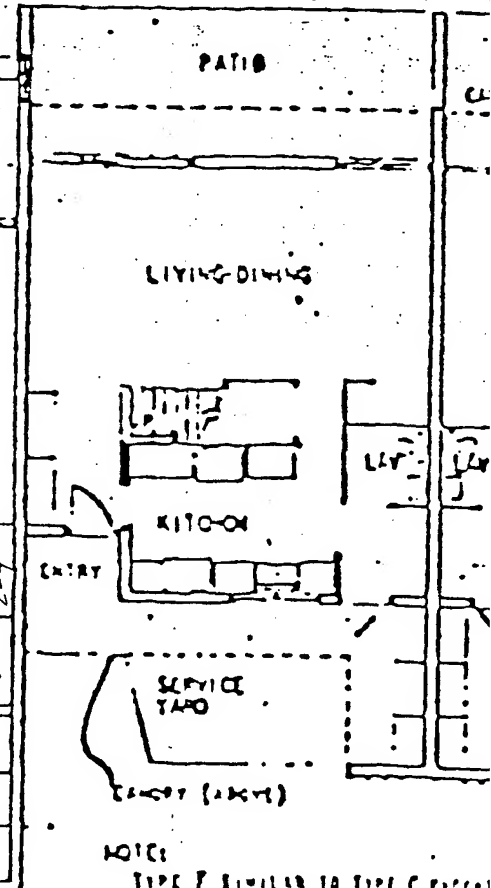
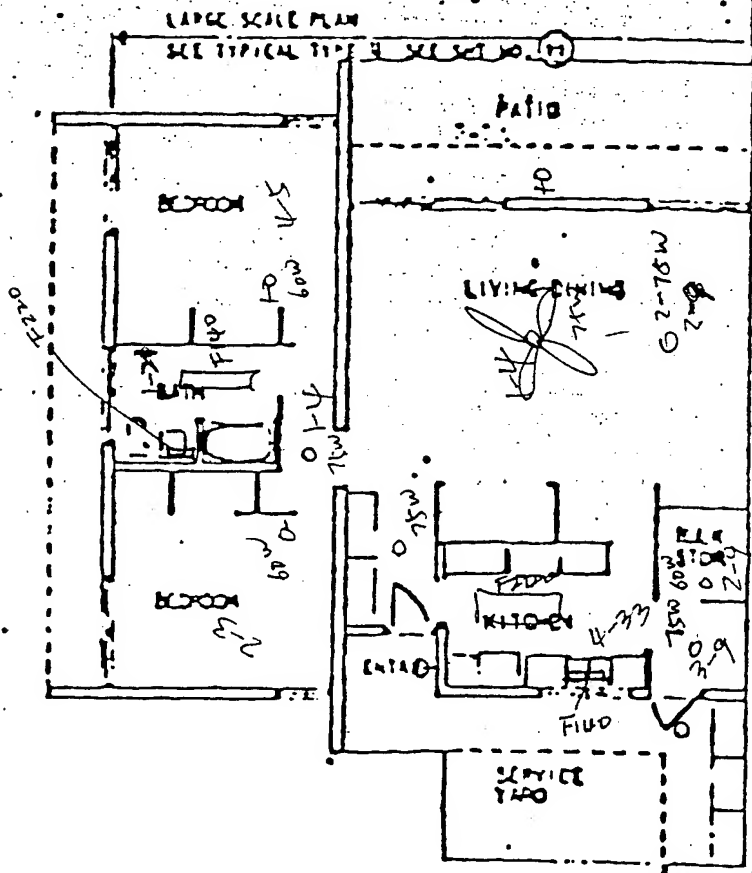
3433.D

SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

Reverse

SEE ABOUT CENTERING 2



NOTE

TYPE F SIMILAR TO TYPE C EXCEPT 2 STORY UNITS WITH SINGLE STAIR

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3434

Building Type: 57-V

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 5 pm

No. of Occupants: 2

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

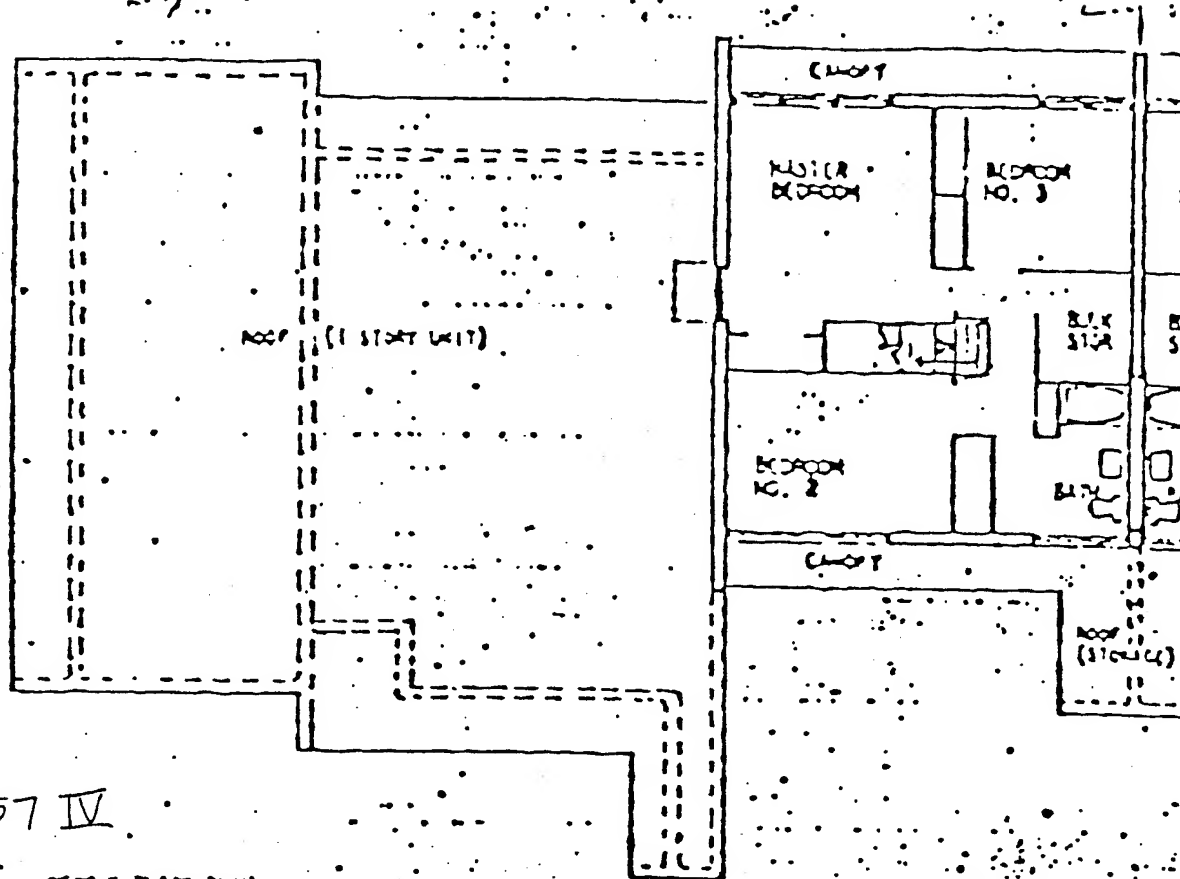
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|----------|-------------|---------|
| KIT. SK | 1.5l/10s | 128F | |
| Bathroom Shwr | 1l/10s | 122 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

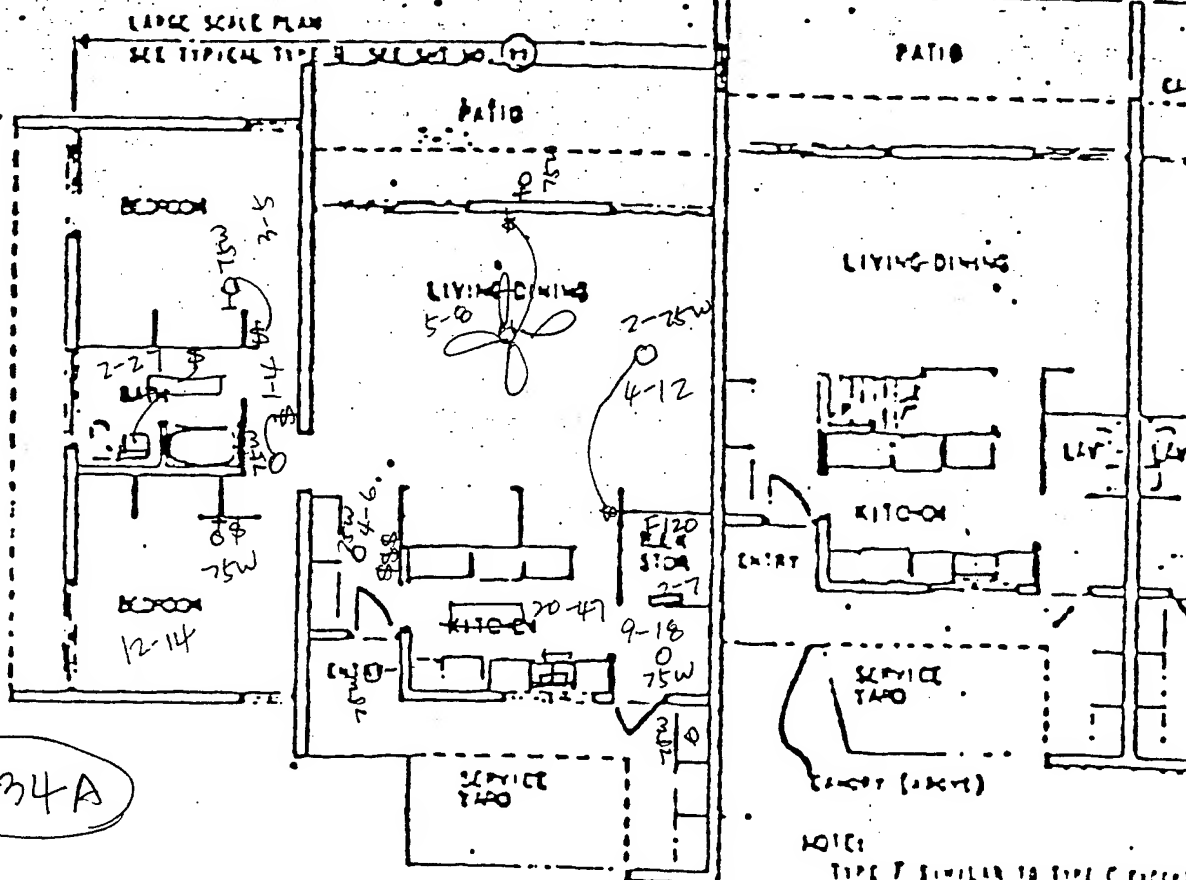


TYPE 57 V & 57 IV

SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

SEE ABOUT CENTERLINE 2



3434A

NOTE:

TYPE F SIMILAR TO TYPE C EXCEPT 2 STORY UNITS WITH SINGLE STAIR

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3440

Building Type: 57-V

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: All Day

No. of Occupants: 3

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 20

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

same as S7-III

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- 3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- (4)

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

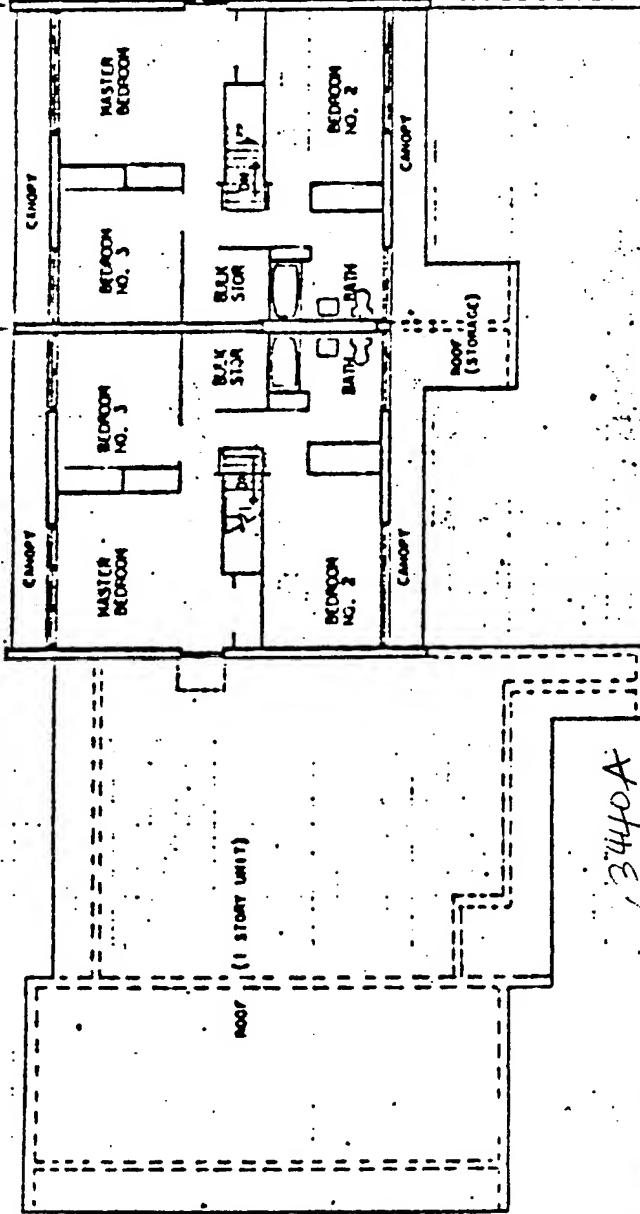
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|----------|-------------|---------------------|
| KIT. SK | 1.5ℓ/10s | 124 | Restrict. on faucet |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

SEE TYPICAL TYPE 3 UNIT NO. 10



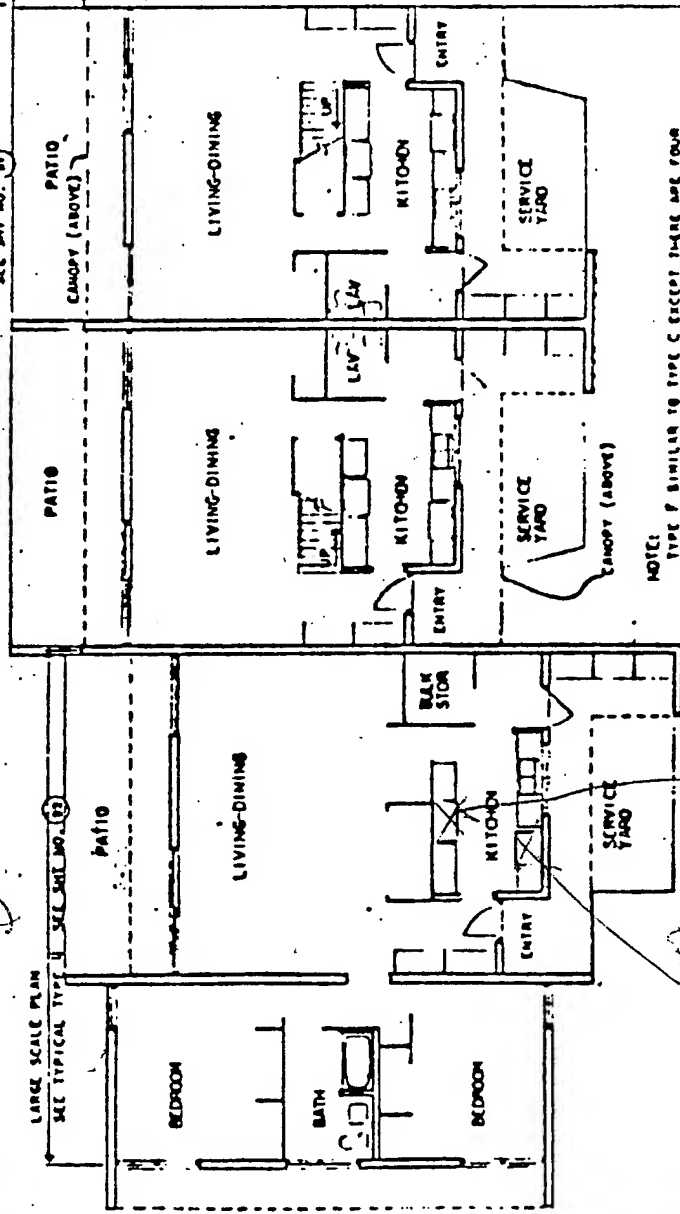
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3440A

SYN ABOUT CENTERLINE 2 - LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SEE UNIT NO. 10

SEE SITE PLAN SHEET 07 FOR LOCATION

Type 57-V
57-IV



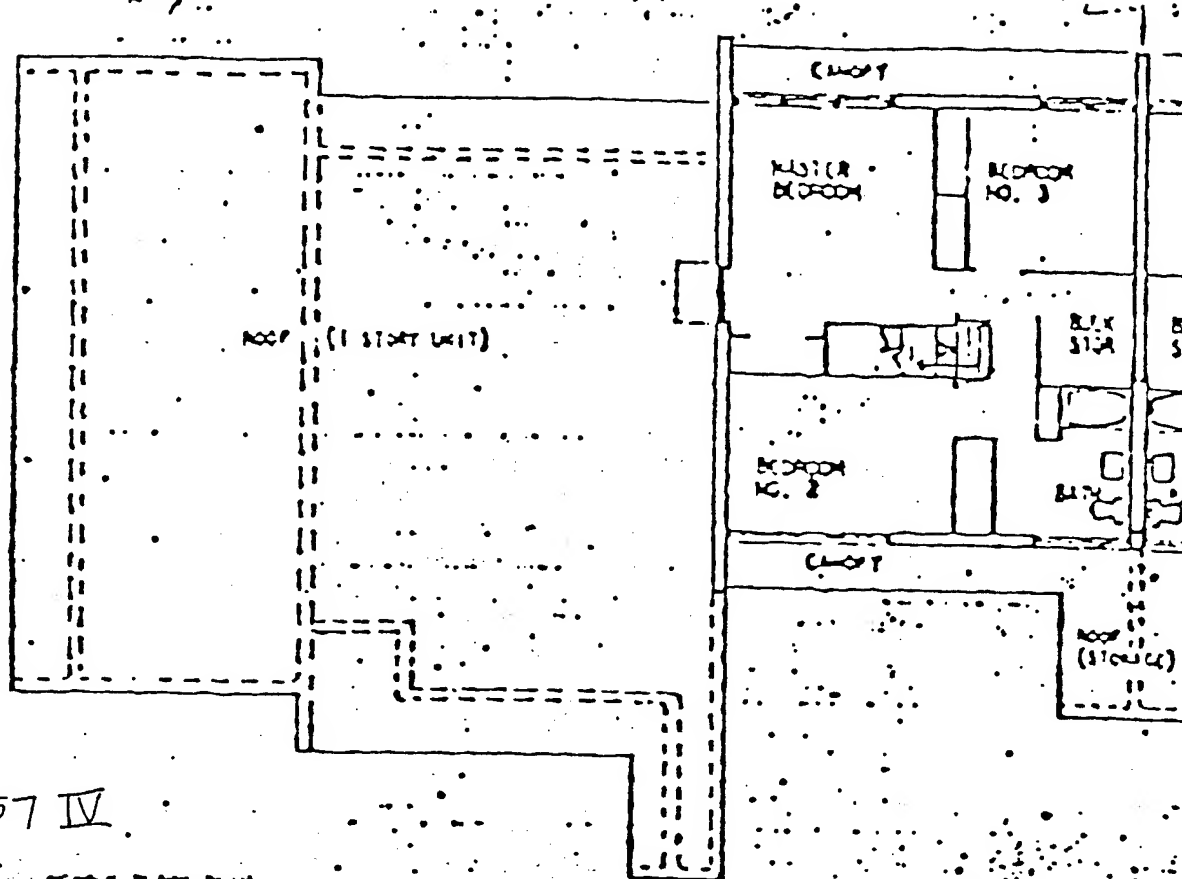
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

See and
of nature from Refrig. - which else same

NOTE:
TYPE 57 SIMILAR TO TYPE C EXCEPT THERE ARE FOUR
2 STORY UNITS WITH SINGLE STORY
UNITS AT ENDS

GRAPHIC SCALE 1/8" = 1'-0"

| REVISIONS | | | |
|--|----|----|----|
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | | | |
| CAMPBELL HOUSING SCHOOL 1957 AREA 4-1 | | | |
| FIRST AND SECOND FLOOR PLANS TYPE C | | | |
| SCHOOL BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| COMPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 1104 | 25 | 23 | 07 |
| | | | 17 |



TYPE 57 IV & 57 IV

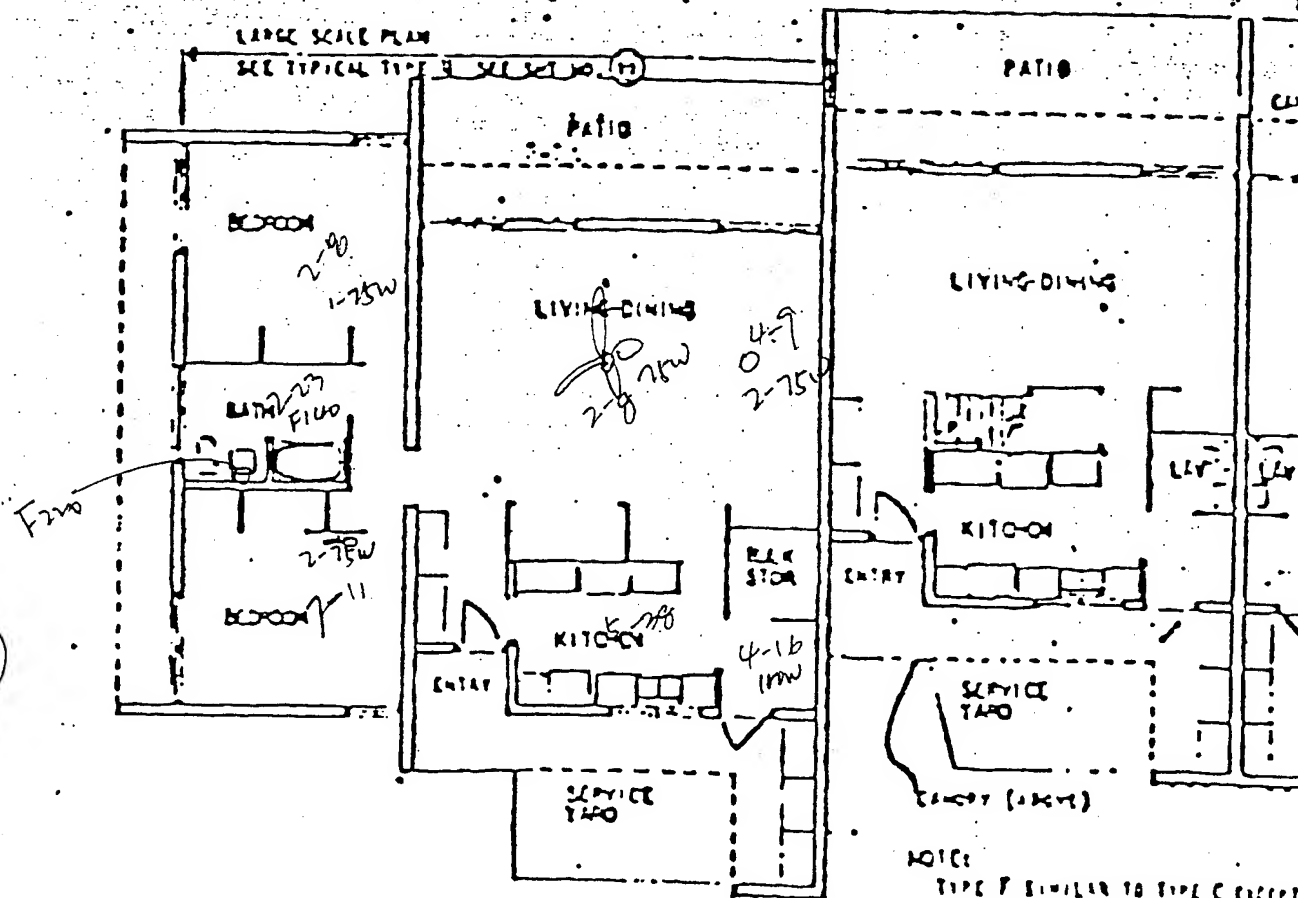
SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

SYN ABOUT CENTERLINE 2'

LARGE SCALE PLAN

SEE TYPICAL TYPE 3 SEE SECTION 17



NOTE:

TYPE F SIMILAR TO TYPE C EXCEPT 2 STORY UNITS WITH SINGLE STORY

2440 A

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3442

Building Type: S7-V

Apartment: D

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 15

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-111

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):
- _____ Central Plant _____ One System per Building
- _____ Several Small Systems per Building
- _____ Individual EWH/Unit
- b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F
- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:
- _____
- _____
- _____
- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____
- e. Is Hot Water Circulated? _____
- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

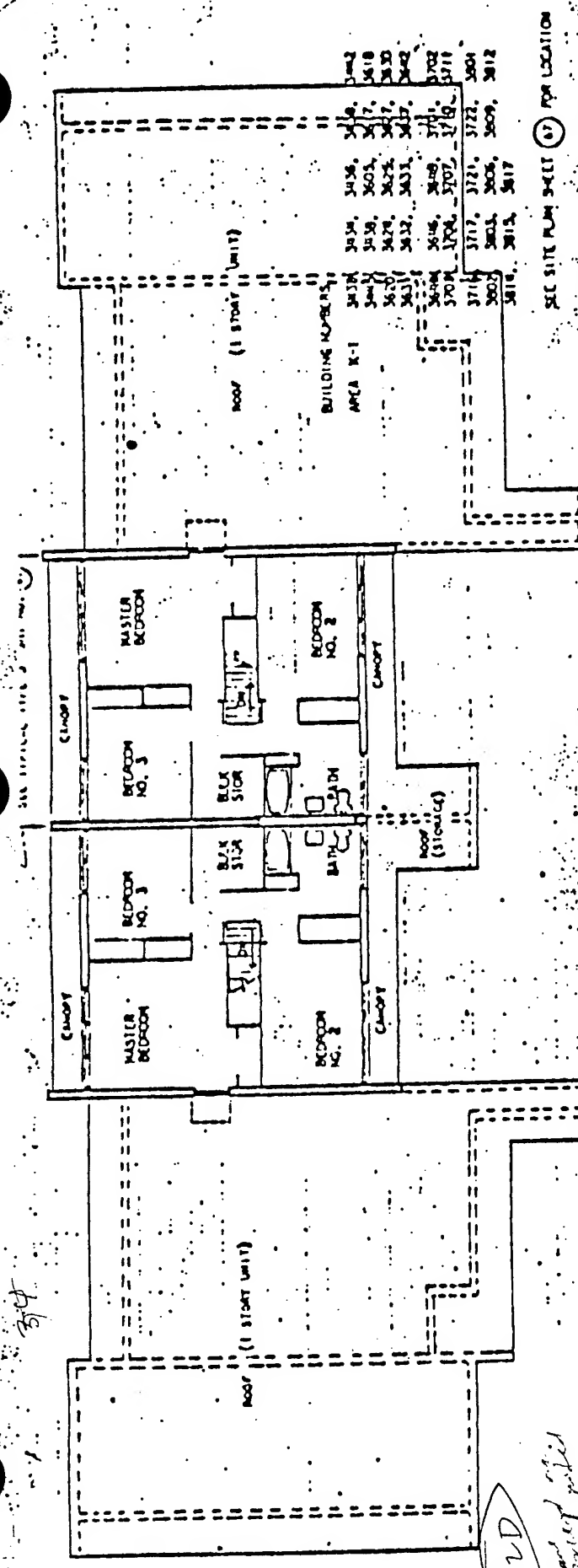
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------------|----------|-------------|---------------------|
| KIT. SK | 1.5L/10S | 116 F | |
| Bathroom Shwr | 12/10S | 112 | Shower Massage Head |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



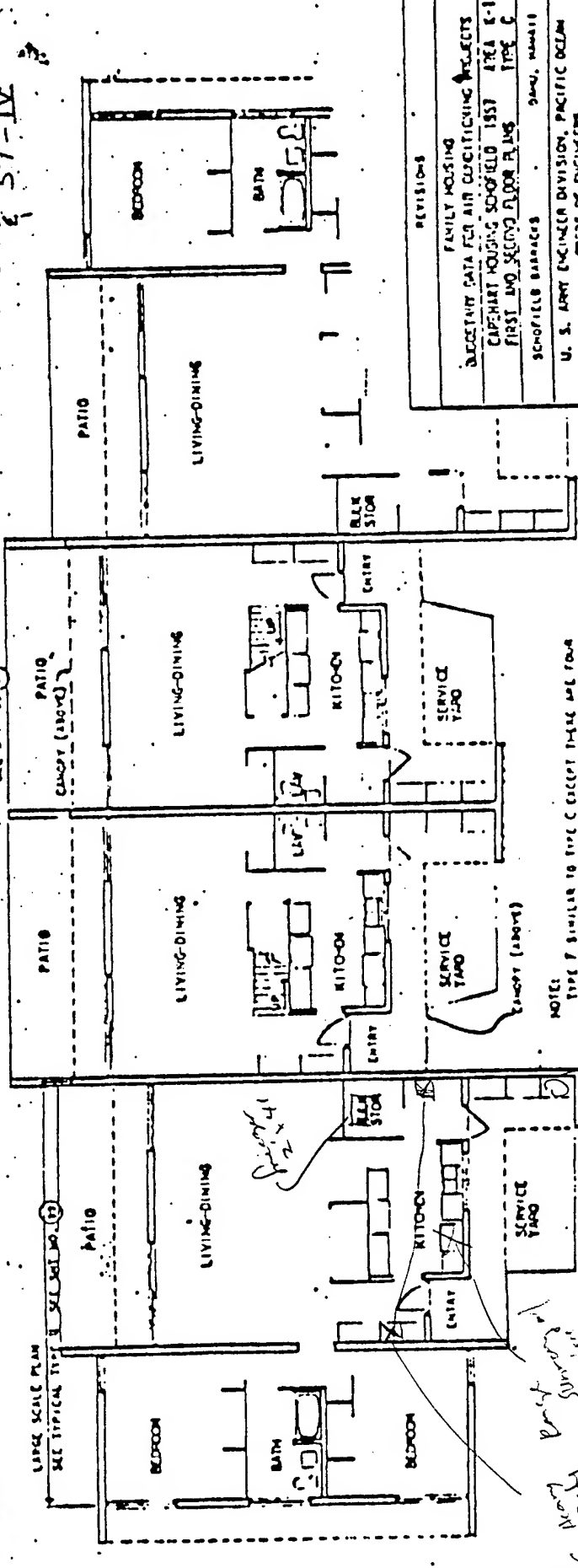
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

SEE ABOUT CENTERLINE 2
SEE TYPICAL TYPE 3
SEE DET NO. 10

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SEE DET NO. 10

SEE SITE PLAN SHEET 07 FOR LOCATION

TYPE 57-V
57-IV



FIRST FLOOR PLAN

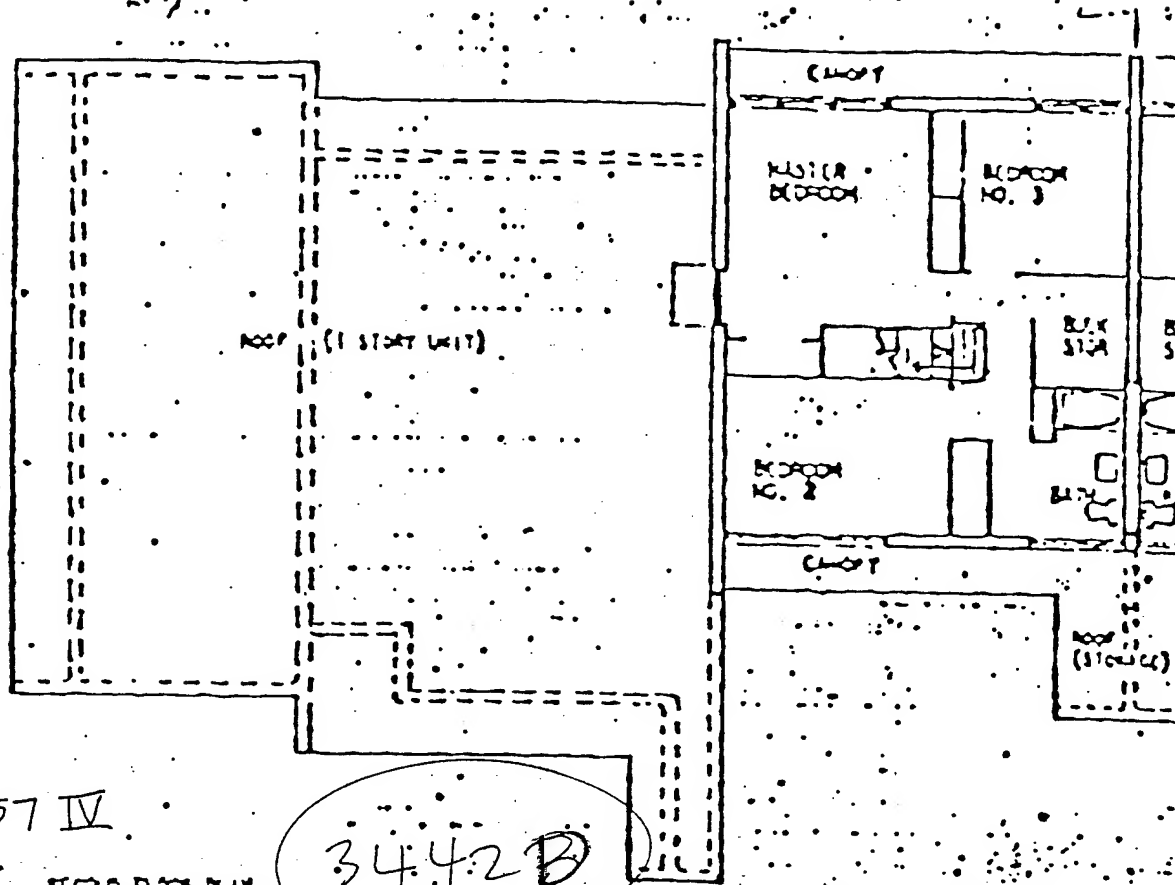
NOTE:
TYPE 7 SIMILAR TO TYPE C EXCEPT THERE ARE FOUR
2 STORY UNITS WITH SINGLE STORY
CANOPY UNITS AT EACH
END (4 UNITS)

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SEE DET NO. 10

SEE SITE PLAN SHEET 07 FOR LOCATION

TYPE 57-V
57-IV

| REVISIONS | | | |
|---|----|----|-----|
| 1 | 25 | 07 | 517 |
| FAMILY HOUSING | | | |
| DECEMBER DATA FOR AIR CONDITIONING PROJECTS | | | |
| CAPENHART HOUSING SCHOOL 1957 AREA E-1 | | | |
| FIRST AND SECOND FLOOR PLANS TYPE C | | | |
| SCHOOL BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |



TYPE 57 V & 57 IV

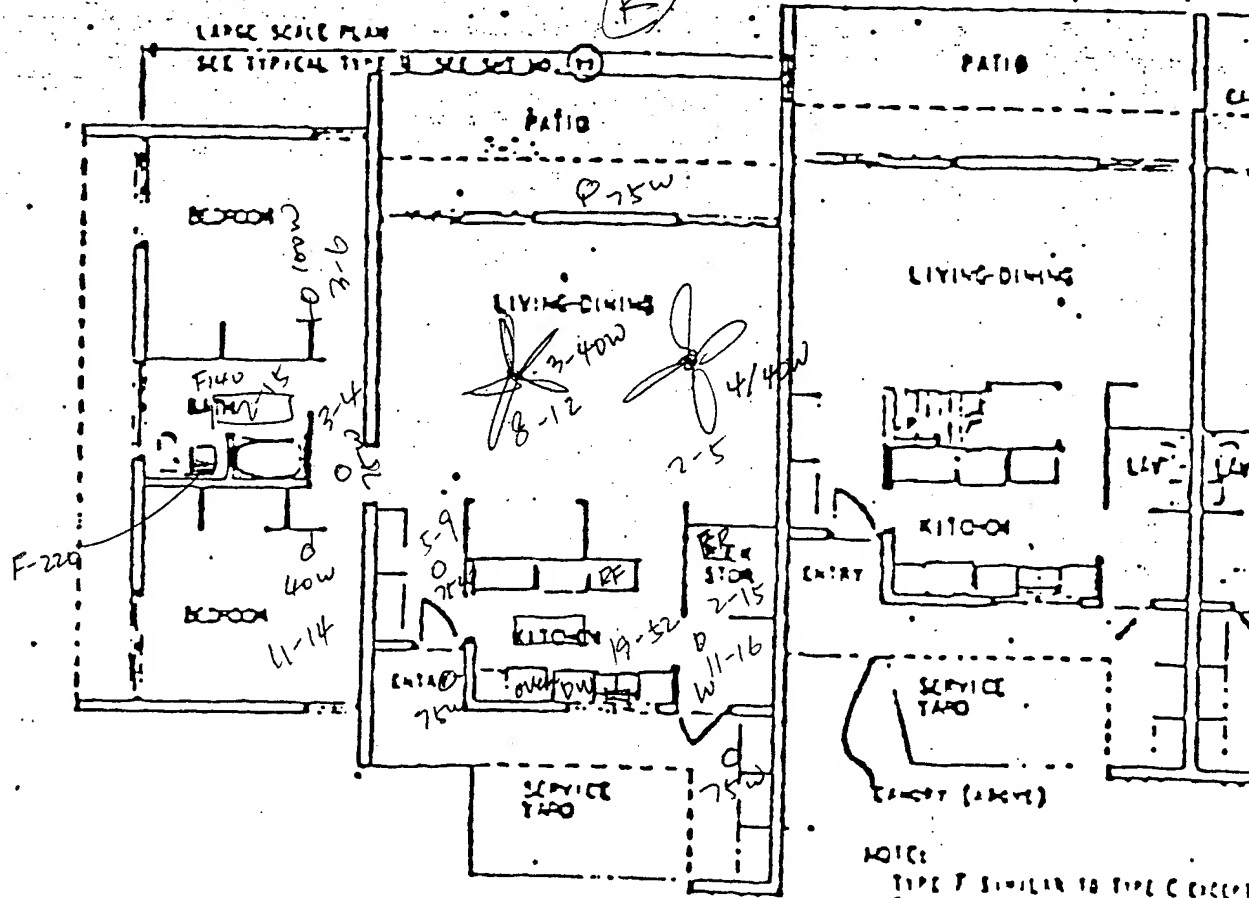
SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

SEE ABOUT CENTERING 2

LARGE SCALE PLAN

SEE TYPICAL TYPE 3 SEE SET NO. 17



NOTE:

TYPE 7 SIMILAR TO TYPE C EXCEPT 2 STORY UNITS WITH SINGLE STORY

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3444

Building Type: 57-V

Apartment: E

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 2.

Average No. of Showers/Day: 2/day

Average No. of Laundry Loads/Week: 1/week.

Average No. of Times Dishwasher Used/Day: N/A.

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same
as 57-111

Window Yes No
Tinted
Reflective Coating /

3.0 HOT WATER SYSTEM

same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

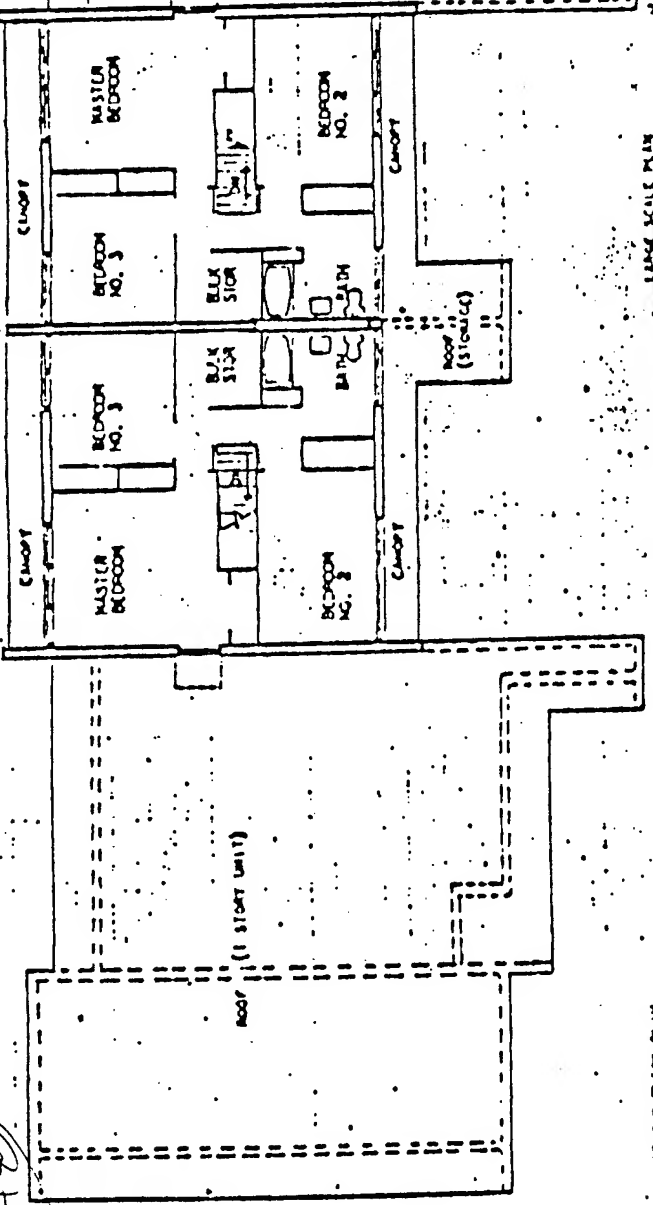
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|-----------|-------------|----------------------|
| Kit Sk | 1.5 l/10s | 130 F | Flow Rest. on faucet |
| | | | |
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| | | | |

34448

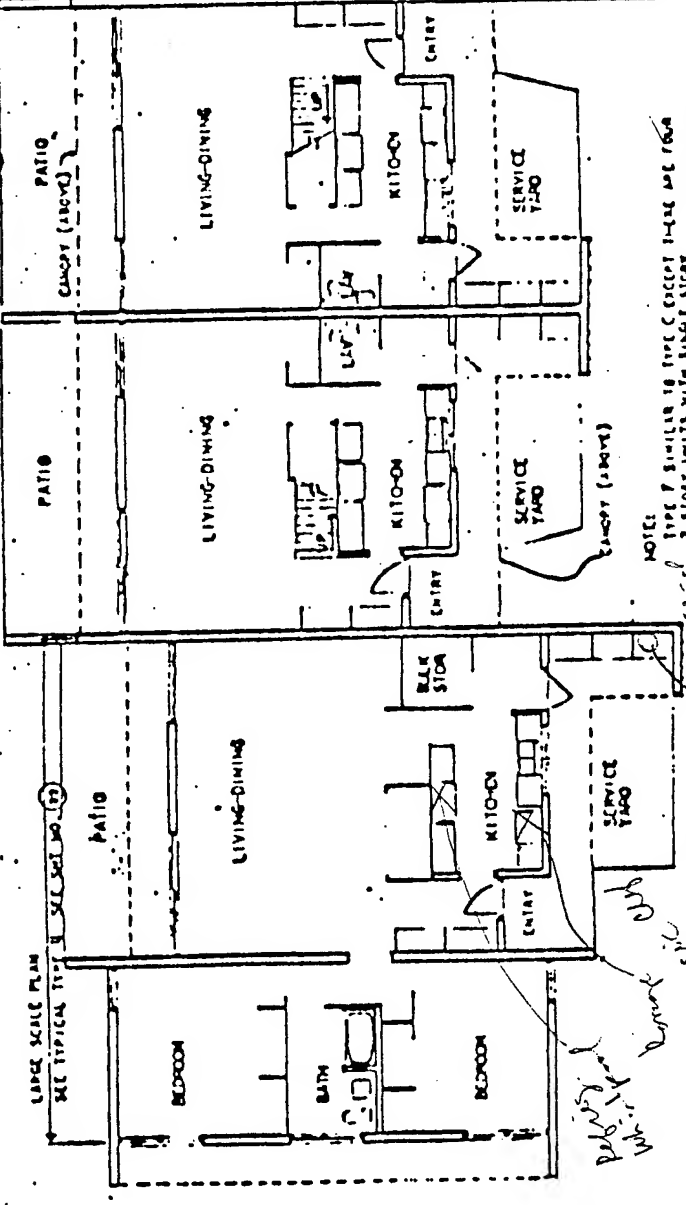
TYPE 57-V

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



SEE TYPICAL TYPE 3
SEE UNIT NO. 10

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SEE UNIT NO. 10



NOTE: TYPE 7 SIMILAR TO TYPE C EXCEPT THERE ARE FOUR 2 STORY UNITS WITH SINGLE STAIR WITH (BYPASS) IS AT CORNER

FIRST FLOOR PLAN

| REVISIONS | | | |
|-----------|----|----|----|
| 1 | 25 | 07 | 17 |
| 2 | 25 | 07 | 17 |
| 3 | 25 | 07 | 17 |
| 4 | 25 | 07 | 17 |
| 5 | 25 | 07 | 17 |
| 6 | 25 | 07 | 17 |
| 7 | 25 | 07 | 17 |
| 8 | 25 | 07 | 17 |
| 9 | 25 | 07 | 17 |
| 10 | 25 | 07 | 17 |
| 11 | 25 | 07 | 17 |
| 12 | 25 | 07 | 17 |
| 13 | 25 | 07 | 17 |
| 14 | 25 | 07 | 17 |
| 15 | 25 | 07 | 17 |
| 16 | 25 | 07 | 17 |
| 17 | 25 | 07 | 17 |
| 18 | 25 | 07 | 17 |
| 19 | 25 | 07 | 17 |
| 20 | 25 | 07 | 17 |
| 21 | 25 | 07 | 17 |
| 22 | 25 | 07 | 17 |
| 23 | 25 | 07 | 17 |
| 24 | 25 | 07 | 17 |
| 25 | 25 | 07 | 17 |

REVISIONS
FAMILY HOLDING
EXECUTIVE DATA FOR AIR CONDITIONING PROJECTS
CAPTAIN HOUSING SCHOFIELD TEST AREA C-1
FIRST AND SECOND FLOOR PLANS TYPE C
SCHOFIELD BARRACKS
U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN
GROUP OF ENGINEERS
MOORE, HANLEY

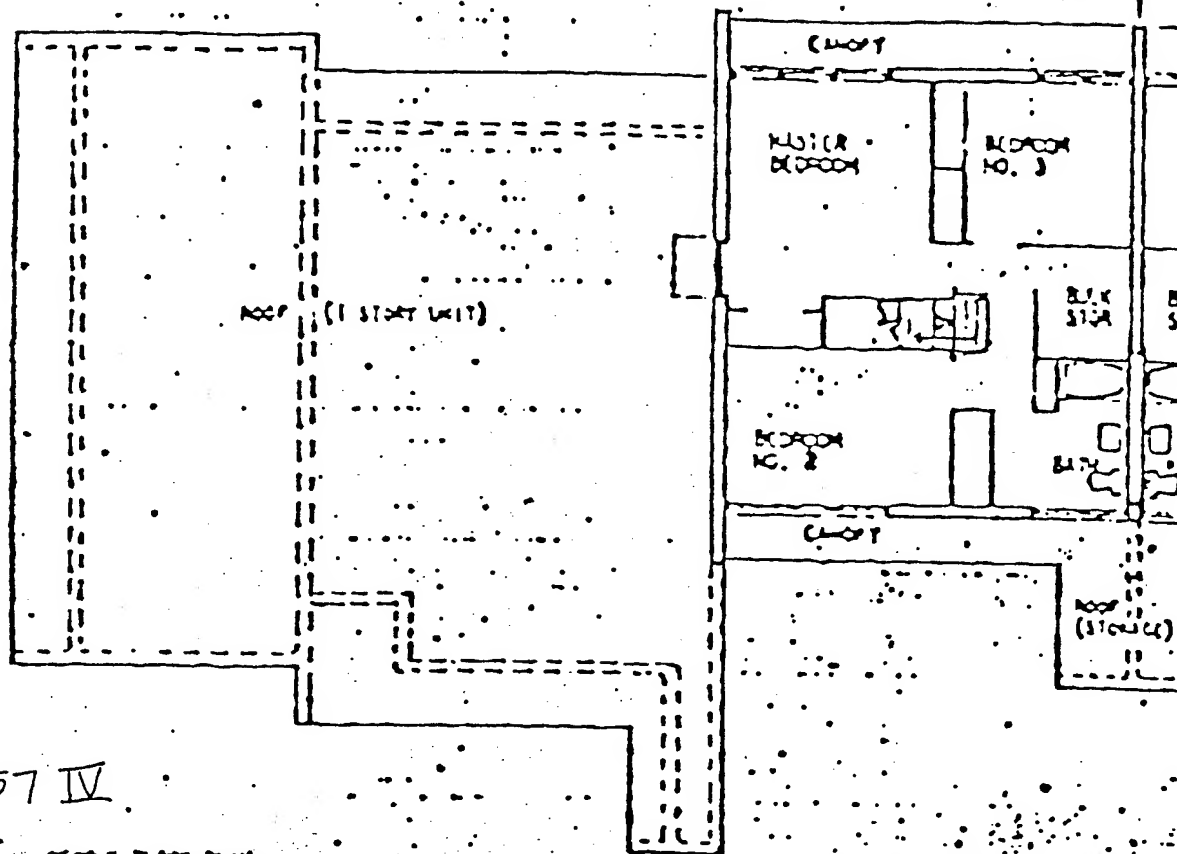
SEE SITE PLAN SHEET 67 FOR LOCATION

TYPE 57-V
57-IV

ROOF (1 STORY UNIT)

BUILDING NUMBERS

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|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----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| APCA K-1 | 3434 | 3435 | 3436 | 3437 | 3438 | 3439 | 3440 | 3441 | 3442 | 3443 | 3444 | 3445 | 3446 | 3447 | 3448 | 3449 | 3450 | 3451 | 3452 | 3453 | 3454 | 3455 | 3456 | 3457 | 3458 | 3459 | 3460 | 3461 | 3462 | 3463 | 3464 | 3465 | 3466 | 3467 | 3468 | 3469 | 3470 | 3471 | 3472 | 3473 | 3474 | 3475 | 3476 | 3477 | 3478 | 3479 | 3480 | 3481 | 3482 | 3483 | 3484 | 3485 | 3486 | 3487 | 3488 | 3489 | 3490 | 3491 | 3492 | 3493 | 3494 | 3495 | 3496 | 3497 | 3498 | 3499 | 3500 | 3501 | 3502 | 3503 | 3504 | 3505 | 3506 | 3507 | 3508 | 3509 | 3510 | 3511 | 3512 | 3513 | 3514 | 3515 | 3516 | 3517 | 3518 | 3519 | 3520 | 3521 | 3522 | 3523 | 3524 | 3525 | 3526 | 3527 | 3528 | 3529 | 3530 | 3531 | 3532 | 3533 | 3534 | 3535 | 3536 | 3537 | 3538 | 3539 | 3540 | 3541 | 3542 | 3543 | 3544 | 3545 | 3546 | 3547 | 3548 | 3549 | 3550 | 3551 | 3552 | 3553 | 3554 | 3555 | 3556 | 3557 | 3558 | 3559 | 3560 | 3561 | 3562 | 3563 | 3564 | 3565 | 3566 | 3567 | 3568 | 3569 | 3570 | 3571 | 3572 | 3573 | 3574 | 3575 | 3576 | 3577 | 3578 | 3579 | 3580 | 3581 | 3582 | 3583 | 3584 | 3585 | 3586 | 3587 | 3588 | 3589 | 3590 | 3591 | 3592 | 3593 | 3594 | 3595 | 3596 | 3597 | 3598 | 3599 | 3600 | 3601 | 3602 | 3603 | 3604 | 3605 | 3606 | 3607 | 3608 | 3609 | 3610 | 3611 | 3612 | 3613 | 3614 | 3615 | 3616 | 3617 | 3618 | 3619 | 3620 | 3621 | 3622 | 3623 | 3624 | 3625 | 3626 | 3627 | 3628 | 3629 | 3630 | 3631 | 3632 | 3633 | 3634 | 3635 | 3636 | 3637 | 3638 | 3639 | 3640 | 3641 | 3642 | 3643 | 3644 | 3645 | 3646 | 3647 | 3648 | 3649 | 3650 | 3651 | 3652 | 3653 | 3654 | 3655 | 3656 | 3657 | 3658 | 3659 | 3660 | 3661 | 3662 | 3663 | 3664 | 3665 | 3666 | 3667 | 3668 | 3669 | 3670 | 3671 | 3672 | 3673 | 3674 | 3675 | 3676 | 3677 | 3678 | 3679 | 3680 | 3681 | 3682 | 3683 | 3684 | 3685 | 3686 | 3687 | 3688 | 3689 | 3690 | 3691 | 3692 | 3693 | 3694 | 3695 | 3696 | 3697 | 3698 | 3699 | 3700 | 3701 | 3702 | 3703 | 3704 | 3705 | 3706 | 3707 | 3708 | 3709 | 3710 | 3711 | 3712 | 3713 | 3714 | 3715 | 3716 | 3717 | 3718 | 3719 | 3720 | 3721 | 3722 | 3723 | 3724 | 3725 | 3726 | 3727 | 3728 | 3729 | 3730 | 3731 | 3732 | 3733 | 3734 | 3735 | 3736 | 3737 | 3738 | 3739 | 3740 | 3741 | 3742 | 3743 | 3744 | 3745 | 3746 | 3747 | 3748 | 3749 | 3750 | 3751 | 3752 | 3753 | 3754 | 3755 | 3756 | 3757 | 3758 | 3759 | 3760 | 3761 | 3762 | 3763 | 3764 | 3765 | 3766 | 3767 | 3768 | 3769 | 3770 | 3771 | 3772 | 3773 | 3774 | 3775 | 3776 | 3777 | 3778 | 3779 | 3780 | 3781 | 3782 | 3783 | 3784 | 3785 | 3786 | 3787 | 3788 | 3789 | 3790 | 3791 | 3792 | 3793 | 3794 | 3795 | 3796 | 3797 | 3798 | 3799 | 3800 | 3801 | 3802 | 3803 | 3804 | 3805 | 3806 | 3807 | 3808 | 3809 | 3810 | 3811 | 3812 | 3813 | 3814 | 3815 | 3816 | 3817 | 3818 | 3819 | 3820 | 3821 | 3822 | 3823 | 3824 | 3825 | 3826 | 3827 | 3828 | 3829 | 3830 | 3831 | 3832 | 3833 | 3834 | 3835 | 3836 | 3837 | 3838 | 3839 | 3840 | 3841 | 3842 | 3843 | 3844 | 3845 | 3846 | 3847 | 3848 | 3849 | 3850 | 3851 | 3852 | 3853 | 3854 | 3855 | 3856 | 3857 | 3858 | 3859 | 3860 | 3861 | 3862 | 3863 | 3864 | 3865 | 3866 | 3867 | 3868 | 3869 | 3870 | 3871 | 3872 | 3873 | 3874 | 3875 | 3876 | 3877 | 3878 | 3879 | 3880 | 3881 | 3882 | 3883 | 3884 | 3885 | 3886 | 3887 | 3888 | 3889 | 3890 | 3891 | 3892 | 3893 | 3894 | 3895 | 3896 | 3897 | 3898 | 3899 | 3900 | 3901 | 3902 | 3903 | 3904 | 3905 | 3906 | 3907 | 3908 | 3909 | 3910 | 3911 | 3912 | 3913 | 3914 | 3915 | 3916 | 3917 | 3918 | 3919 | 3920 | 3921 | 3922 | 3923 | 3924 | 3925 | 3926 | 3927 | 3928 | 3929 | 3930 | 3931 | 3932 | 3933 | 3934 | 3935 | 3936 | 3937 | 3938 | 3939 | 3940 | 3941 | 3942 | 3943 | 3944 | 3945 | 3946 | 3947 | 3948 | 3949 | 3950 | 3951 | 3952 | 3953 | 3954 | 3955 | 3956 | 3957 | 3958 | 3959 | 3960 | 3961 | 3962 | 3963 | 3964 | 3965 | 3966 | 3967 | 3968 | 3969 | 3970 | 3971 | 3972 | 3973 | 3974 | 3975 | 3976 | 3977 | 3978 | 3979 | 3980 | 3981 | 3982 | 3983 | 3984 | 3985 | 3986 | 3987 | 3988 | 3989 | 3990 | 3991 | 3992 | 3993 | 3994 | 3995 | 3996 | 3997 | 3998 | 3999 | 4000 | 4001 | 4002 | 4003 | 4004 | 4005 | 4006 | 4007 | 4008 | 4009 | 4010 | 4011 | 4012 | 4013 | 4014 | 4015 | 4016 | 4017 | 4018 | 4019 | 4020 | 4021 | 4022 | 4023 | 4024 | 4025 | 4026 | 4027 | 4028 | 4029 | 4030 | 4031 | 4032 | 4033 | 4034 | 4035 | 4036 | 4037 | 4038 | 4039 | 4040 | 4041 | 4042 | 4043 | 4044 | 4045 | 4046 | 4047 | 4048 | 4049 | 4050 | 4051 | 4052 | 4053 | 4054 | 4055 | 4056 | 4057 | 4058 | 4059 | 4060 | 4061 | 4062 | 4063 | 4064 | 4065 | 4066 | 4067 | 4068 | 4069 | 4070 | 4071 | 4072 | 4073 | 4074 | 4075 | 4076 | 4077 | 4078 | 4079 | 4080 | 4081 | 4082 | 4083 | 4084 | 4085 | 4086 | 4087 | 4088 | 4089 | 4090 | 4091 | 4092 | 4093 | 4094 | 4095 | 4096 | 4097 | 4098 | 4099 | 4100 | 4101 | 4102 | 4103 | 4104 | 4105 | 4106 | 4107 | 4108 | 4109 | 4110 | 4111 | 4112 | 4113 | 4114 | 4115 | 4116 | 4117 | 4118 | 4119 | 4120 | 4121 | 4122 | 4123 | 4124 | 4125 | 4126 | 4127 | 4128 | 4129 | 4130 | 4131 | 4132 | 4133 | 4134 | 4135 | 4136 | 4137 | 4138 | 4139 | 4140 | 4141 | 4142 | 4143 | 4144 | 4145 | 4146 | 4147 | 4148 | 4149 | 4150 | 4151 | 4152 | 4153 | 4154 | 4155 | 4156 | 4157 | 4158 | 4159 | 4160 | 4161 | 4162 | 4163 | 4164 | 4165 | 4166 | 4167 | 4168 | 4169 | 4170 | 4171 | 4172 | 4173 | 4174 | 4175 | 4176 | 4177 | 4178 | 4179 | 4180 | 4181 | 4182 | 4183 | 4184 | 4185 | 4186 | 4187 | 4188 | 4189 | 4190 | 4191 | 4192 | 4193 | 4194 | 4195 | 4196 | 4197 | 4198 | 4199 | 4200 | 4201 | 4202 | 4203 | 4204 | 4205 | 4206 | 4207 | 4208 | 4209 | 4210 | 4211 | 4212 | 4213 | 4214 | 4215 | 4216 | 4217 | 4218 | 4219 | 4220 | 4221 | 4222 | 4223 | 4224 | 4225 | 4226 | 4227 | 4228 | 4229 | 4230 | 4231 | 4232 | 4233 | 4234 | 4235 | 4236 | 4237 | 4238 | 4239 | 4240 | 4241 | 4242 | 4243 | 4244 | 4245 | 4246 | 4247 | 4248 | 4249 | 4250 | 4251 | 4252 | 4253 | 4254 | 4255 | 4256 | 4257 | 4258 | 4259 | 4260 | 4261 | 4262 | 4263 | 4264 | 4265 | 4266 | 4267 | 4268 | 4269 | 4270 | 4271 | 4272 | 4273 | 4274 | 4275 | 4276 | 4277 | 4278 | 4279 | 4280 | 4281 | 4282 | 4283 | 4284 | 4285 | 4286 | 4287 | 4288 | 4289 | 4290 | 4291 | 4292 | 4293 | 4294 | 4295 | 4296 | 4297 | 4298 | 4299 | 4300 | 4301 | 4302 | 4303 | 4304 | 4305 | 4306 | 4307 | 4308 | 4309 | 4310 | 4311 | 4312 | 4313 | 4314 | 4315 | 4316 | 4317 | 4318 | 4319 | 4320 | 4321 | 4322 | 4323 | 4324 | 4325 | 4326 | 4327 | 4328 | 4329 | 4330 | 4331 | 4332 | 4333 | 4334 | 4335 | 4336 | 4337 | 4338 | 4339 | 4340 | 4341 | 4342 | 4343 | 4344 | 4345 | 4346 | 4347 | 4348 | 4349 | 4350 | 4351 | 4352 | 4353 | 4354 | 4355 | 4356 | 4357 | 4358 | 4359 | 4360 | 4361 | 4362 | 4363 | 4364 | 4365 | 4366 | 4367 | 4368 | 4369 | 4370 | 4371 | 4372 | 4373 | 4374 | 4375 | 4376 | 4377 | 4378 | 4379 | 4380 | 4381 | 4382 | 4383 | 4384 | 4385 | 4386 | 4387 | 4388 | 4389 | 4390 | 4391 | 4392 | 4393 | 4394 | 4395 | 4396 | 4397 | 4398 | 4399 | 4400 | 4401 | 4402 | 4403 | 4404 | 4405 | 4406 | 4407 | 4408 | 4409 | 4410 | 4411 | 4412 | 4413 | 4414 | 4415 | 4416 | 4417 | 4418 | 4419 | 4420 | 4421 | 4422 | 4423 | 4424 | 4425 | 4426 | 4427 | 4428 | 4429 | 4430 | 4431 | 4432 | 4433 | 4434 | 4435 | 4436 | 4437 | 4438 | 4439 | 4440 | 4441 | 4442 | 4443 | 4444 | 4445 | 4446 | 4447 | 4448 | 4449 | 4450 | 4451 | 4452 | 4453 | 4454 | 4455 | 4456 | 4457 | 4458 | 4459 | 4460 | 4461 | 4462 | 4463 | 4464 | 4465 | 4466 | 4467 | 4468 | 4469 | 4470 | 4471 | 4472 | 4473 | 4474 | 4475 | 4476 | 4477 | 4478 | 4479 | 4480 | 4481 | 4482 | 4483 | 4484 | 4485 | 4486 | 4487 | 4488 | 4489 | 4490 | 4491 | 4492 | 4493 | 4494 | 4495 | 4496 | 4497 | 4498 | 4499 | 4500 | 4501 | 4502 | 4503 | 4504 | 4505 | 4506 | 4507 | 4508 | 4509 | 4510 | 4511 | 4512 | 4513 | 4514 | 4515 | 4516 | 4517 | 4518 | 4519 | 4520 | 4521 | 4522 | 4523 | 4524 | 4525 | 4526 | 4527 | 4528 | 4529 | 4530 | 4531 | 4532 | 4533 | 4534 | 4535 | 4536 | 4537 | 4538 | 4539 | 4540 | 4541 | 4542 | 4543 | 4544 | 4545 | 4546 | 4547 | 4548 | 4549 | 4550 | 4551 | 4552 | 4553 | 4554 | 4555 | 4556 | 4557 | 4558 | 4559 | 4560 | 4561 | 4562 | 4563 | 4564 | 4565 | 4566 | 4567 | 4568 | 4569 | 4570 | 4571 | 4572 | 4573 | 4574 | 4575 | 4576 | 4577 | 4578 | 4579 | 4580 | 4581 | 4582 | 4583 | 4584 | 4585 | 4586 | 4587 | 4588 | 4589 | 4590 | 4591 | 4592 | 4593 | 4594 | 4595 | 4596 | 4597 | 4598 | 4599 | 4600 | 4601 | 4602 | 4603 | 4604 | 4605 | 4606 | 4607 | 4608 | 4609 | 4610 | 4611 | 4612 | 4613 | 4614 | 4615 | 4616 | 4617 | 4618 | 4619 | 4620 | 4621 | 4622 | 4623 | 4624 | 4625 | 4626 | 4627 | 4628 | 4629 | 4630 | 4631 | 4632 | 4633 | 4634 | 4635 | 4636 | 4637 | 4638 | 4639 | 4640 | 4641 | 4642 | 4643 | 4644 | 4645 | 4646 | 4647 | 4648 | 4649 | 4650 | 4651 | 4652 | 4653 | 4654 | 4655 | 4656 | 4657 | 4658 | 4659 | 4660 | 4661 | 4662 | 4663 | 4664 | 4665 | 4666 | 4667 | 4668 | 4669 | 4670 | 4671 | 4672 | 4673 | 4674 | 4675 | 4676 | 4677 | 4678 | 4679 | 4680 | 4681 | 4682 | 4683 | 4684 | 4685 | 4686 | 4687 | 4688 | 4689 | 4690 | 4691 | 4692 | 4693 | 4694 | 4695 | 4696 | 4697 | 4698 | 4699 | 4700 | 4701 | 4702 | 4703 | 4704 | 4705 | 4706 | 4707 | 4708 | 4709 | 4710 | 4711 | 4712 | 4713 | 4714 | 4715 | 4716 | 4717 | 4718 | 4719 | 4720 | 4721 | 4722 | 4723 | 4724 | 4725 | 4726 | 4727 | 4728 | 4729 | 4730 | 4731 | 4732 | 4733 | 4734 | 4735 | 4736 | 4737 | 4738 | 4739 | 4740 | 4741 | 4742 | 4743 | 4744 | 4745 | 4746 | 4747 | 4748 | 4749 | 4750 | 4751 | 4752 | 4753 | 4754 | 4755 | 4756 | 4757 | 4758 | 4759 | 4760 | 4761 | 4762 | 4763 | 4764 | 4765 | 4766 | 4767 | 4768 | 4769 | 4770 | 4771 | 4772 | 4773 | 4774 | 4775 | 4776 | 4777 | 4778 | 4779 | 4780 | 4781 | 4782 | 4783 | 4784 | 4785 | 4786 | 4787 | 4788 | 4789 | 4790 | 4791 | 4792 | 4793 | 4794 | 4795 | 4796 | 4797 | 4798 | 4799 | 4800 | 4801 | 4802 | 4803 | 4804 | 4805 | 4806 | 4807 | 48 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----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TYPE 57 V & 57 IV

SECOND FLOOR PLAN

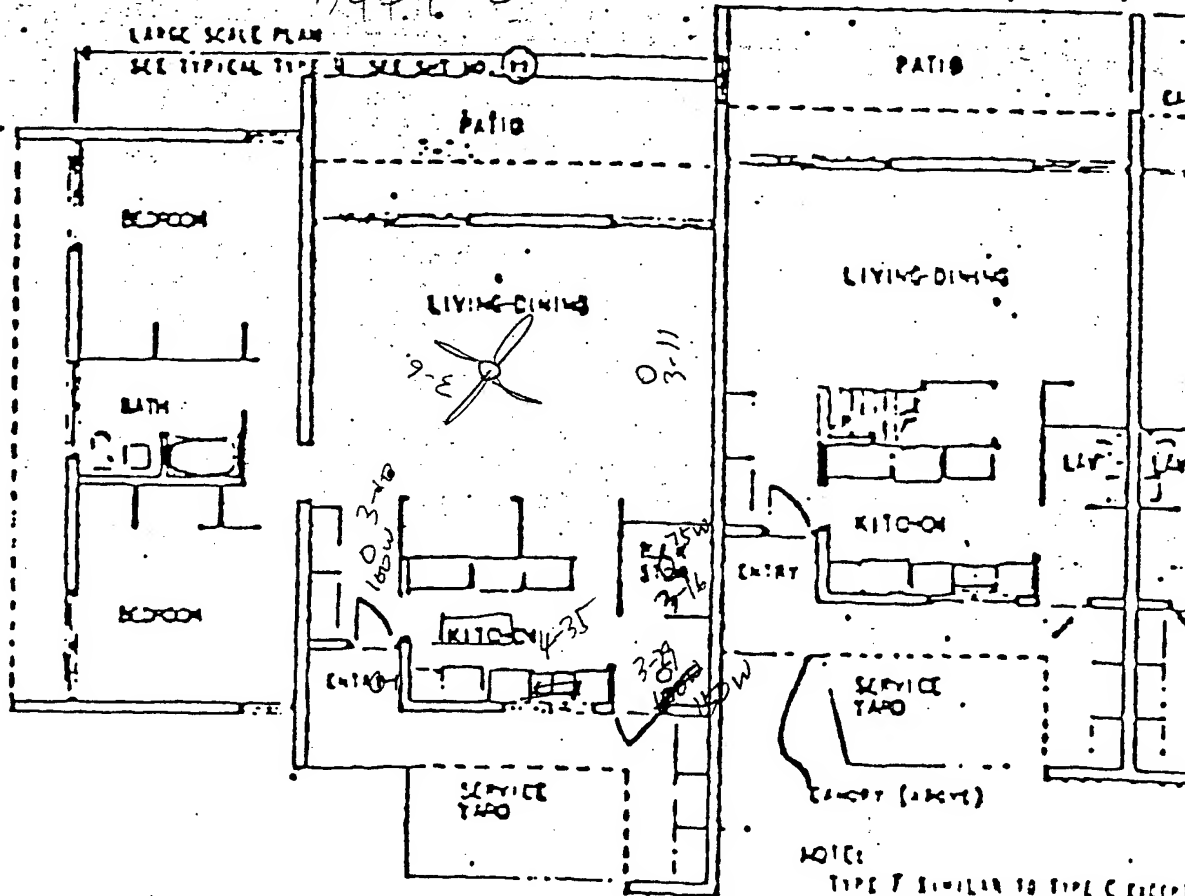
SCALE 1/8" = 1'-0"

3444 E

SEE ABOUT CENTERLINE 2

LARGE SCALE PLAN

SEE TYPICAL TYPE 4 SEE SET NO. 17



UNIT TYPE 57-VI

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3430

Building Type: S7-V1

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 4

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 12

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-111

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

Same as S.7-III

a. Is System Supported from (check one):

 Several Small Systems per Building

_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location _____

b. Areas Served _____

c.: Manufacturer and Model _____

d. Energy (Oil, Gas, Electric, Coal, Etc.) _____

e. Type Heaters & Quantities:

- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|---------|-------------|---------|
| KIT SK | 2 1/10s | 120 | |
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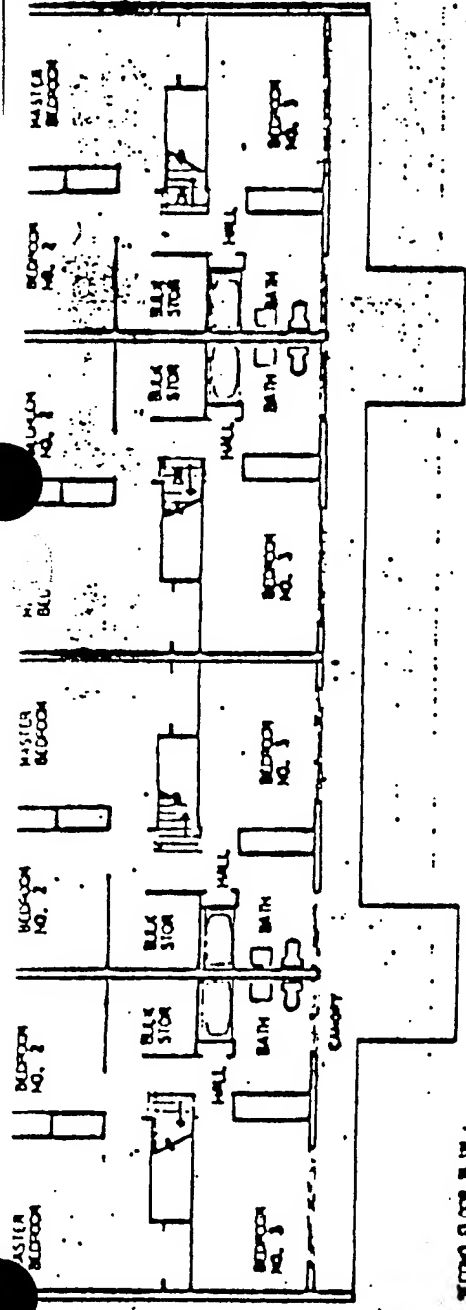
Diff. Type

3704.D
Same except
as noted

BUILDING NUMBER
3430, 3431, 3704, 3713
3720, 3807
SEE SITE PLAN 3431 (2) FOR LOCATION

Type S7-VI

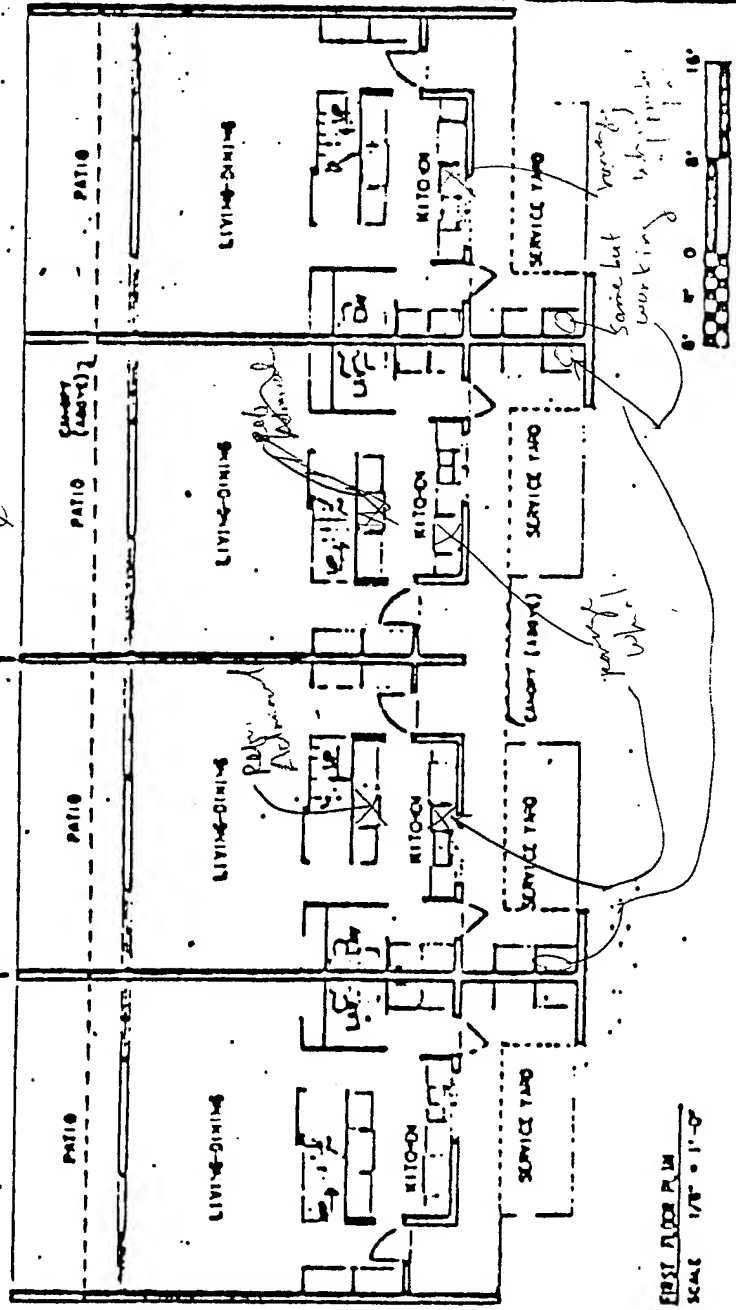
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|--|--|--|--|
| BUILDING NUMBER | | FAMILY RESIDENCE | |
| 3430, 3431, 3704, 3713 | | BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | |
| 3720, 3807 | | CURRENT HOUSE NO. 3431 TYPE S7-VI | |
| SEE SITE PLAN 3431 (2) FOR LOCATION | | FIRST AND SECOND FLOOR PLANS TYPE S7 | |
| 3430, 3431, 3704, 3713 | | NO. OF FLOORS | |
| U. S. NAVY ENGINEERING DIVISION, PACIFIC OCEAN | | NO. OF UNITS | |
| COMPTON, HAWAII | | NO. OF UNITS | |
| LOC. CODE 3430 | | NO. OF UNITS | |
| NO. 1373 | | NO. OF UNITS | |

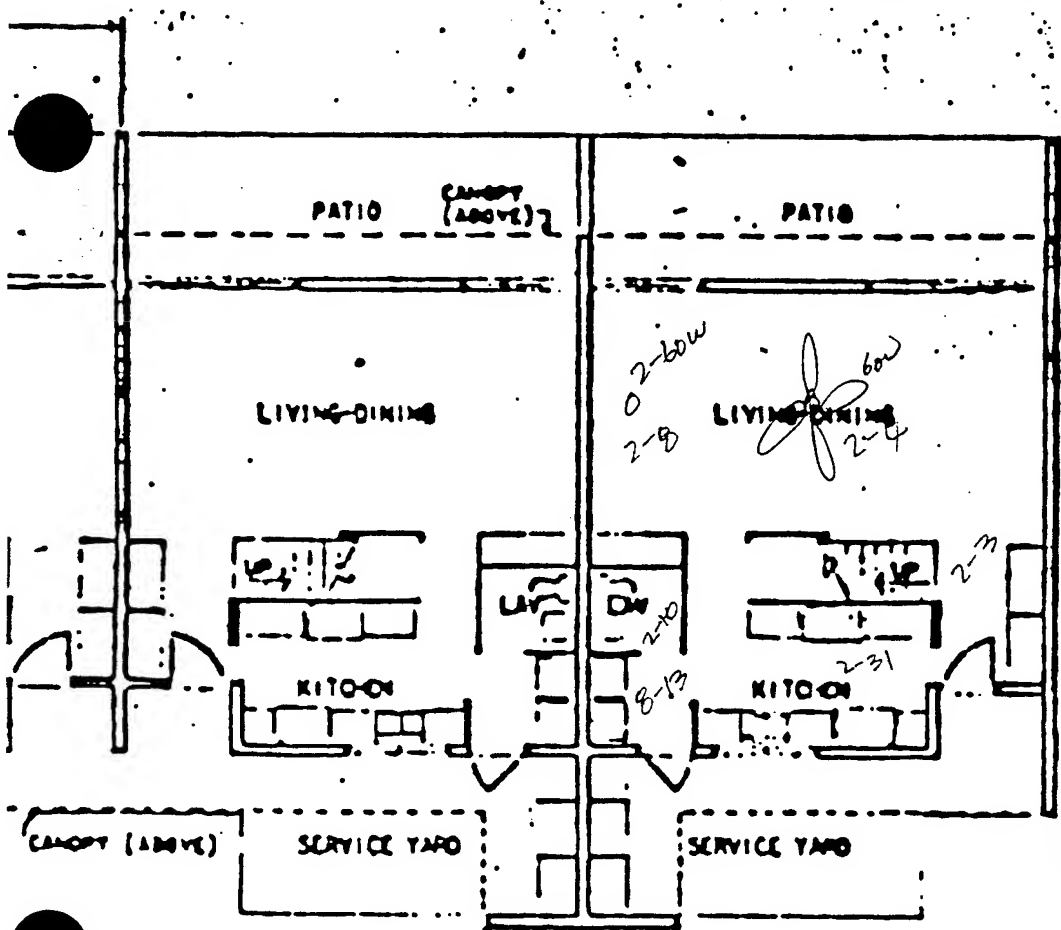
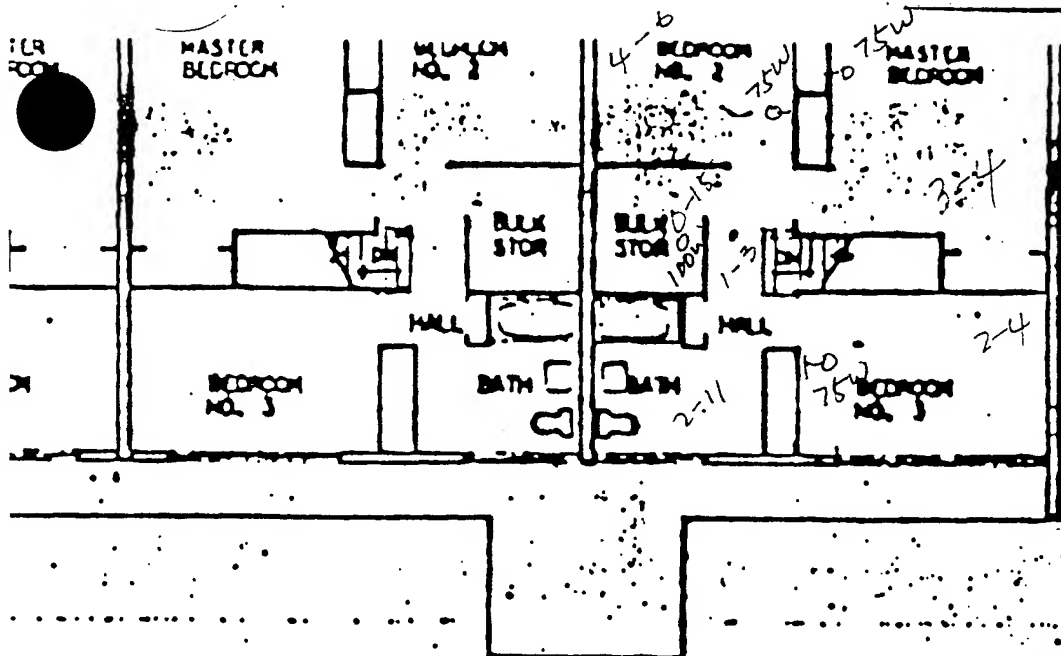


3430 B

SEE SITE PLAN 3431 (2) FOR LOCATION

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3 4 30 C
3 4 30 C

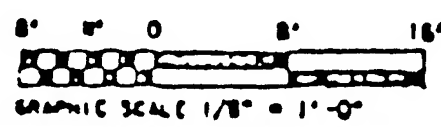




3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS
 3430, 3608, 3704, 3713
 3720, 3807
 SEE SITE PLAN SHEET (87) FOR LOCATION

Type 57-VI



| REVISIONS | | | |
|----------------------------------|----|----|----|
| FAMILY HOUSING | | | |
| BUDGETARY DATA FOR AIR CONDITION | | | |
| CAPEHART HOUSING SCOTFIELD 195 | | | |
| FIRST AND SECOND FLOOR PLANS | | | |
| SCOTFIELD BARBARONS | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 8290 | 25 | 23 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3430
Building Type: 57-V1
Apartment: C
No. Bedrooms: 3
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: 8
No. of Occupants: 3
Average No. of Showers/Day: 2
Average No. of Laundry Loads/Week: 7
Average No. of Times Dishwasher Used/Day: every other day
Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as S7-III

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes / No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

Same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

1) Condition of circular

2) Circulator capacity

3) Is aquastat provided?

4) Aquastat temperature setting

5) Mfg/Model

6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location

b. Areas Served

c. Manufacturer and Model

d. Energy (Oil, Gas, Electric, Coal, Etc.)

e. Type Heaters & Quantities:

1) Storage

2) Instantaneous

3) Semi-Instantaneous

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| KIT SK | 22/100 | 104 | |
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Disc. Type

← 3704.D
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except
in noted

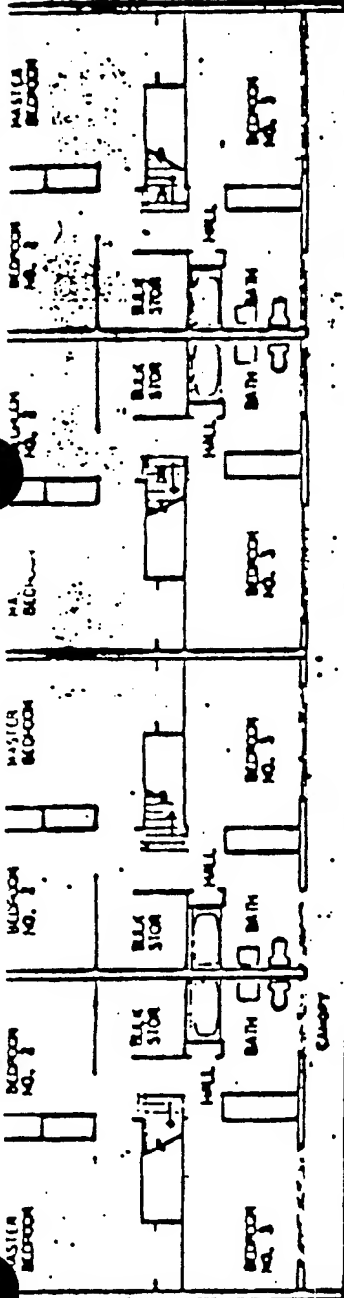
BUILDING NUMBER
3430, 3431, 3704, 3713
3720, 3800
SEE SITE PLAN SHEET (C) FOR LOCATION

Type S7-VI

| REVISIONS | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|
| FAMILY HOUSING | | | | | | | | | |
| SUBMITTANT DATA FOR AIR CONDITIONING PROJECTS | | | | | | | | | |
| CAPITAL HOUSING SOCIETY 1957 AREA 1-1 | | | | | | | | | |
| FIRST AND SECOND FLOOR PLANS TYPE B | | | | | | | | | |
| SHEET 1118 BUILDING 80000, 80001, 80002 | | | | | | | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | | | | | | | |
| COMPS OF CAMPUS | | | | | | | | | |
| HONOLULU, HAWAII | | | | | | | | | |
| LOC CODE | 3430 | 3713 | 3720 | 3721 | 3722 | 3723 | 3724 | 3725 | 3726 |

May 1957

03

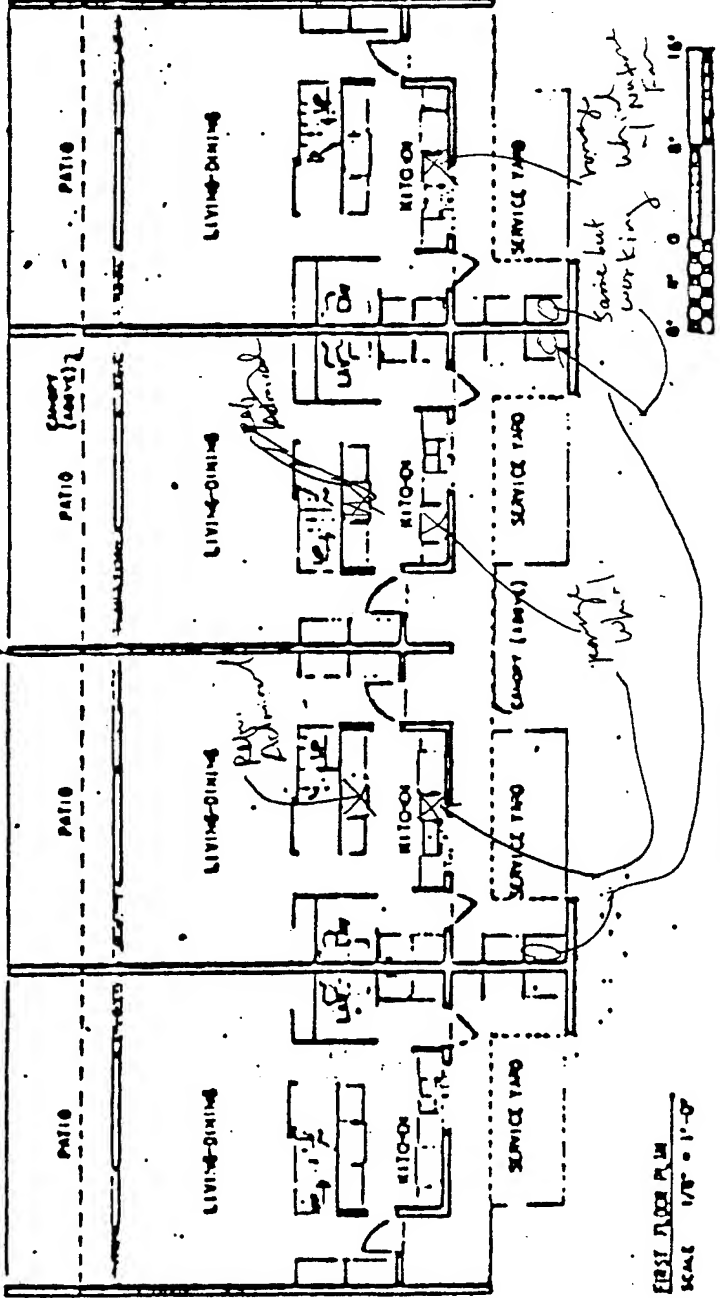


FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

3430 B

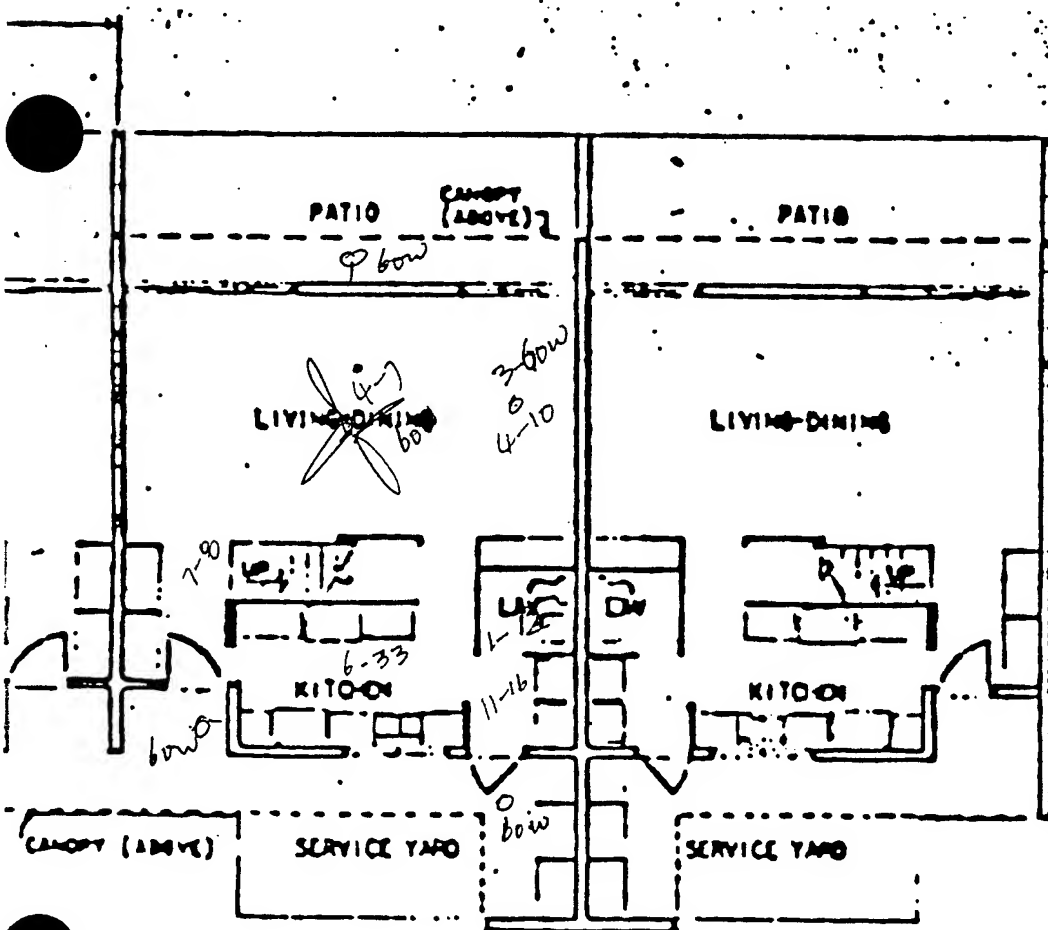
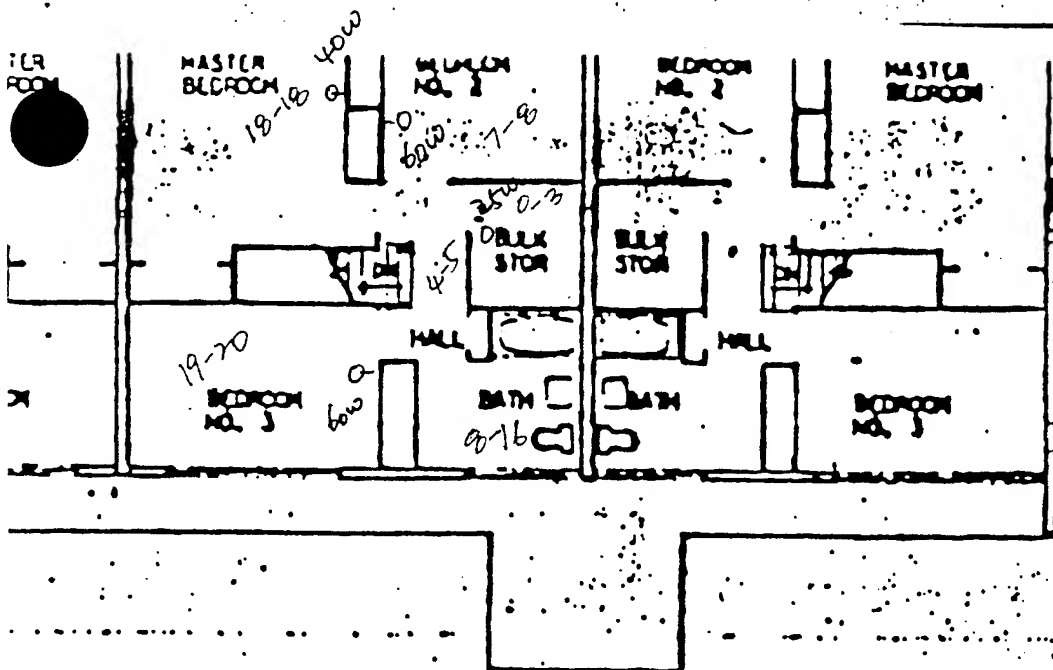
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3500

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS

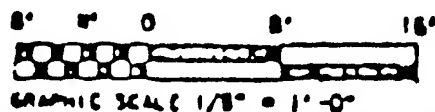
3430, 3608, 3704, 3713
 3720, 3807

SEE SITE PLAN SHEET (07) FOR LOCATION

Type 57-VI

REVISIONS

| | | | |
|-------------------------------------|----|----|----|
| FAMILY HOUSING | | | |
| BUDGETARY DATA FOR AIR CONDITIONING | | | |
| CAPEHART HOUSING SCHOFIELD 195 | | | |
| FIRST AND SECOND FLOOR PLANS | | | |
| SCHOFIELD BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 8799 | 25 | 23 | 07 |



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3704
Building Type: 57-VI
Apartment: A
No. Bedrooms: 3
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: all
No. of Occupants: 5
Average No. of Showers/Day: 4 3
Average No. of Laundry Loads/Week: 10
Average No. of Times Dishwasher Used/Day: /
Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

1) Condition of circular

2) Circulator capacity

3) Is aquastat provided?

4) Aquastat temperature setting

5) Mfg/Model

6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location

b. Areas Served

c. Manufacturer and Model

d. Energy (Oil, Gas, Electric, Coal, Etc.)

e. Type Heaters & Quantities:

1) Storage

2) Instantaneous

3) Semi-Instantaneous

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

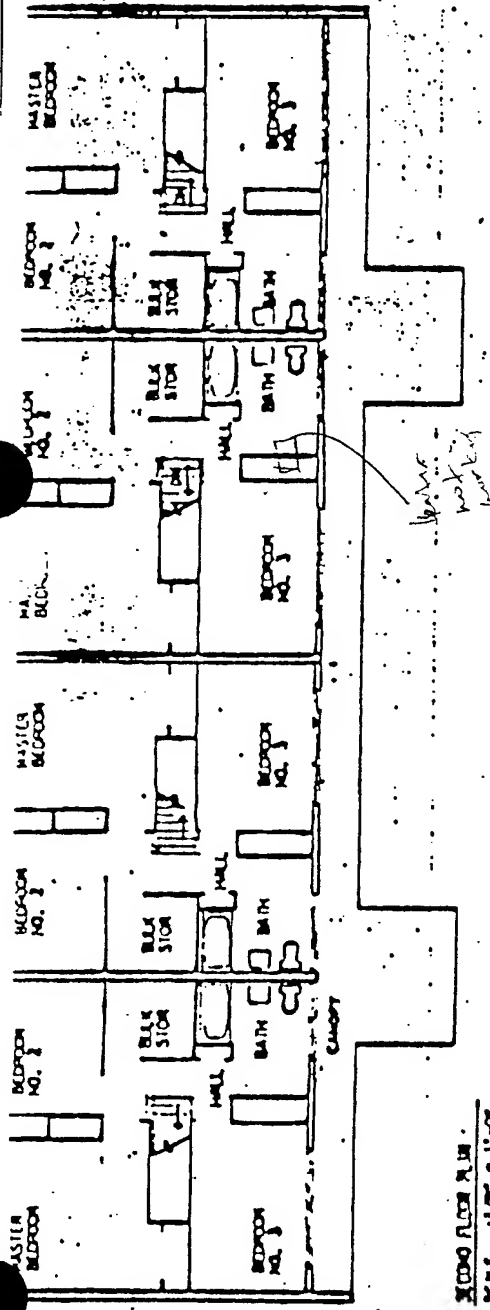
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Callons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|------|-------------|---------|
| Kit. SK | 2L | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Diff. Type

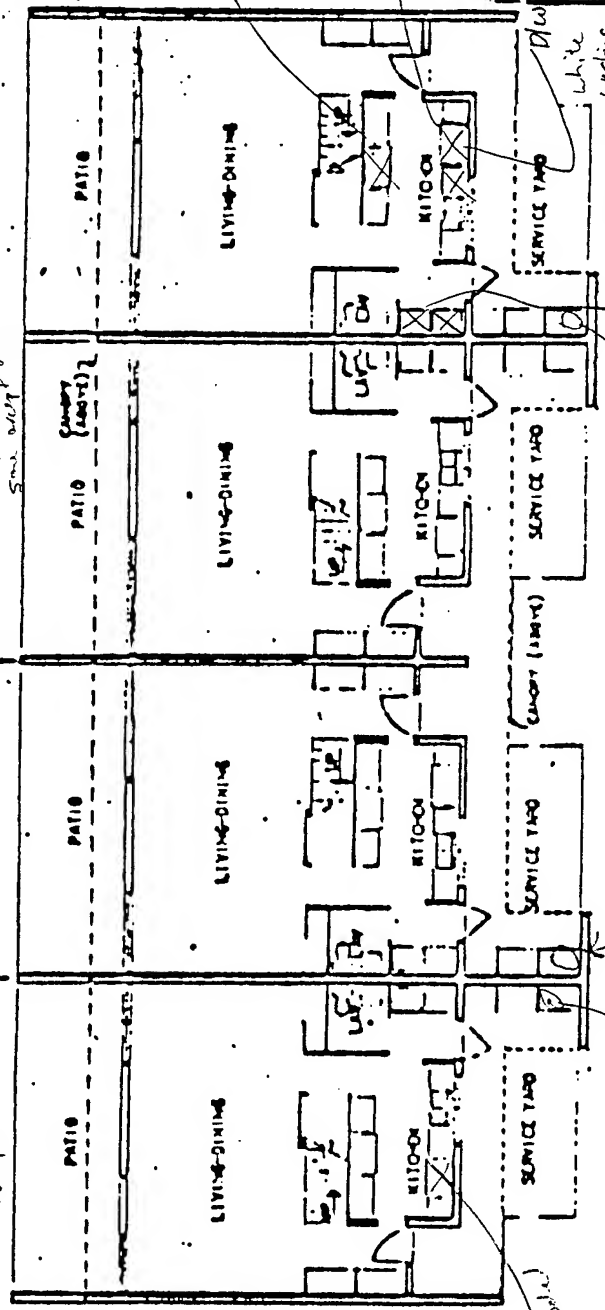


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

374A
Same except

LARGE SCALE PLAN
SEE SECTION TYPE 3
DET. NO. 3

3713
Same except on unit



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

120
paving

Scale

White
washing
25' x 15' x 5' 6"

GRAPHIC SCALE 1/8" = 1'-0"

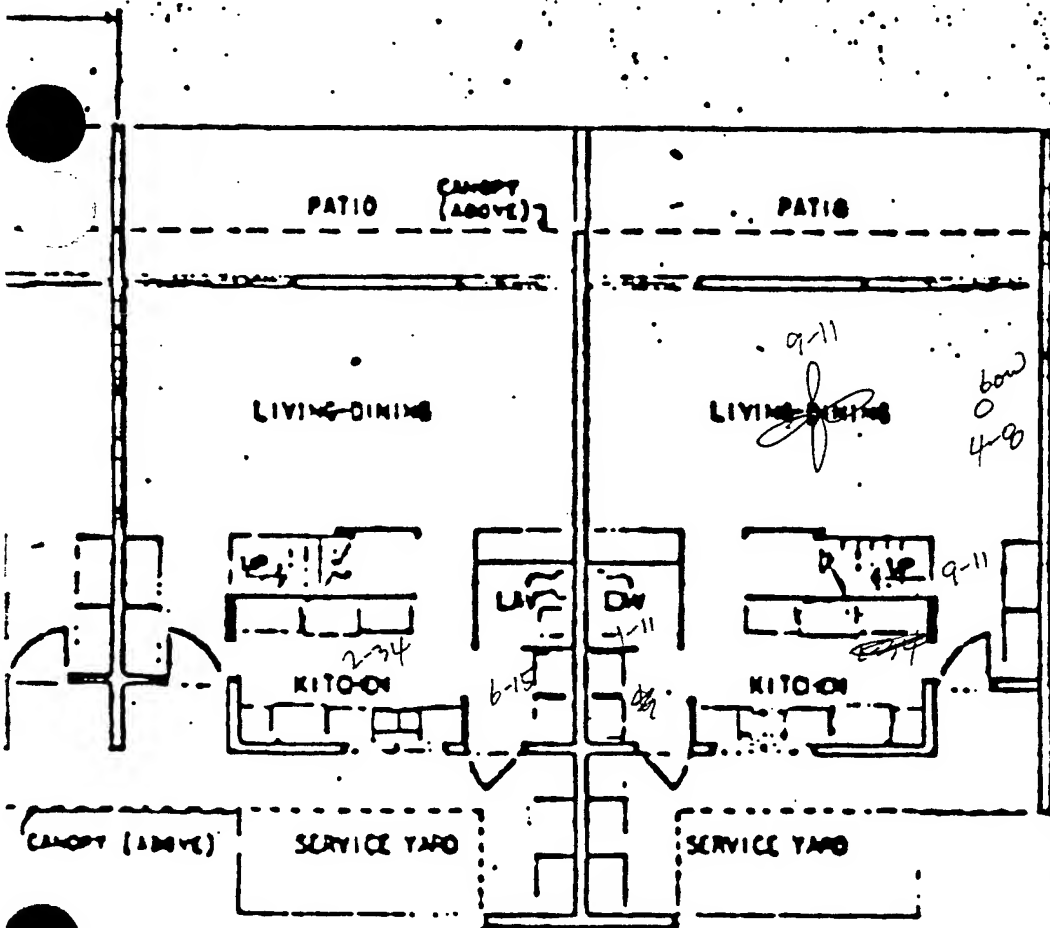
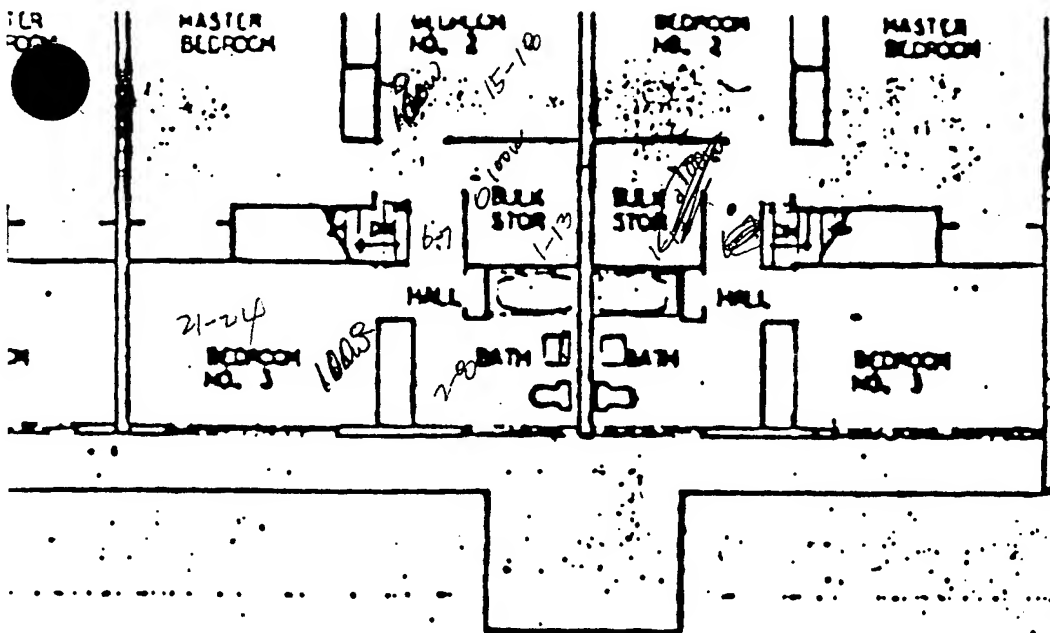
11' 6" high

← 3713
D

Refing. - Gibson
BUILDING NUMBER
3430, 3408, 3708, 3713
3720, 3807
SEE SITE PLAN 3431 (D) FOR LOCATION

Range - Vector 1 Norton
Model 860
Type 57-VI

| REVISIONS | |
|----------------|--|
| 1 | FAMILY ROOMING
SUBSTANTIAL DATA FOR AIR CONDITIONING
CAPACITIES HOUSING SOCIETY 1957
FIRST AND SECOND FLOOR PLANS
TYPE B |
| 2 | GENERAL NOTES
U. S. NAVY ENGINEERING DIVISION, PACIFIC OCEAN
COMPLEX OF BUILDINGS
HONOLULU, HAWAII |
| LOC. CODE 8279 | 23 23 07 347. 14 |
| DATE 1957 | |



3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

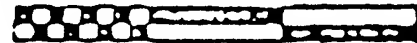
BUILDING NUMBERS

3430, 3608, 3704, 3713
 3720, 3807

SEE SITE PLAN SHEET (07) FOR LOCATION

Type 57-VI

8' 0" 8' 0" 16'



GRAPHIC SCALE 1/8" = 1'-0"

REVISIONS

| | | | |
|----------------------------------|----|----|----|
| FAMILY HOUSING | | | |
| BUDGETARY DATA FOR AIR CONDITION | | | |
| CAPEHART HOUSING SCHOFIELD 195 | | | |
| FIRST AND SECOND FLOOR PLANS | | | |
| SCHOFIELD BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 8770 | 25 | 23 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3704

Building Type: 57-VI

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8 from 5 pm

No. of Occupants: 5

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 2

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-HI

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit Sk | 24/100 | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

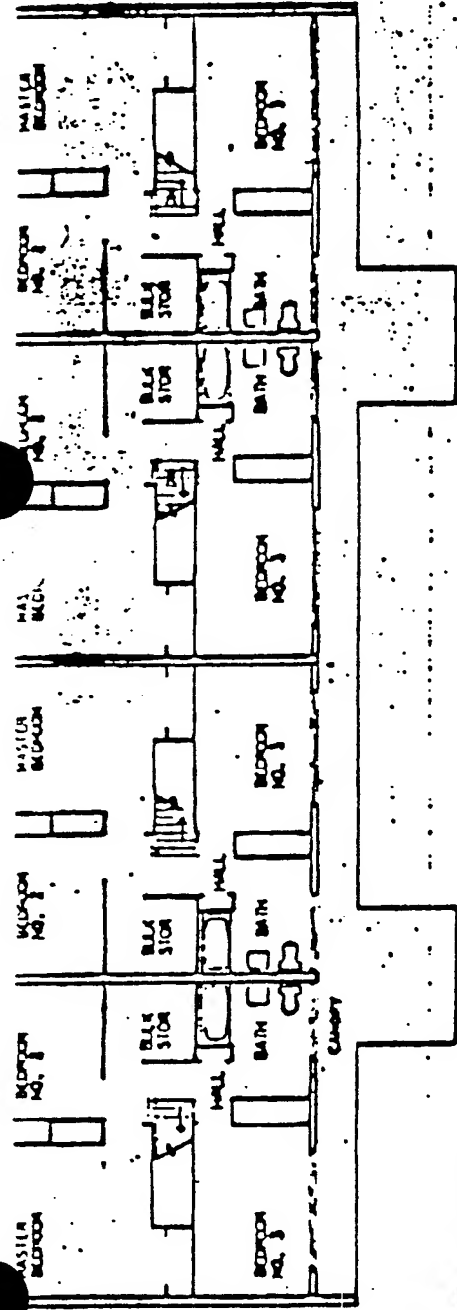
Diff. Type

← 3704.D
Same except
in kitchen

BUILDING NUMBER
3430, 3408, 3708, 3713
3728, 3807
SEE SITE PLAN 3411 (C) FOR LOCATION

Type S7-VI

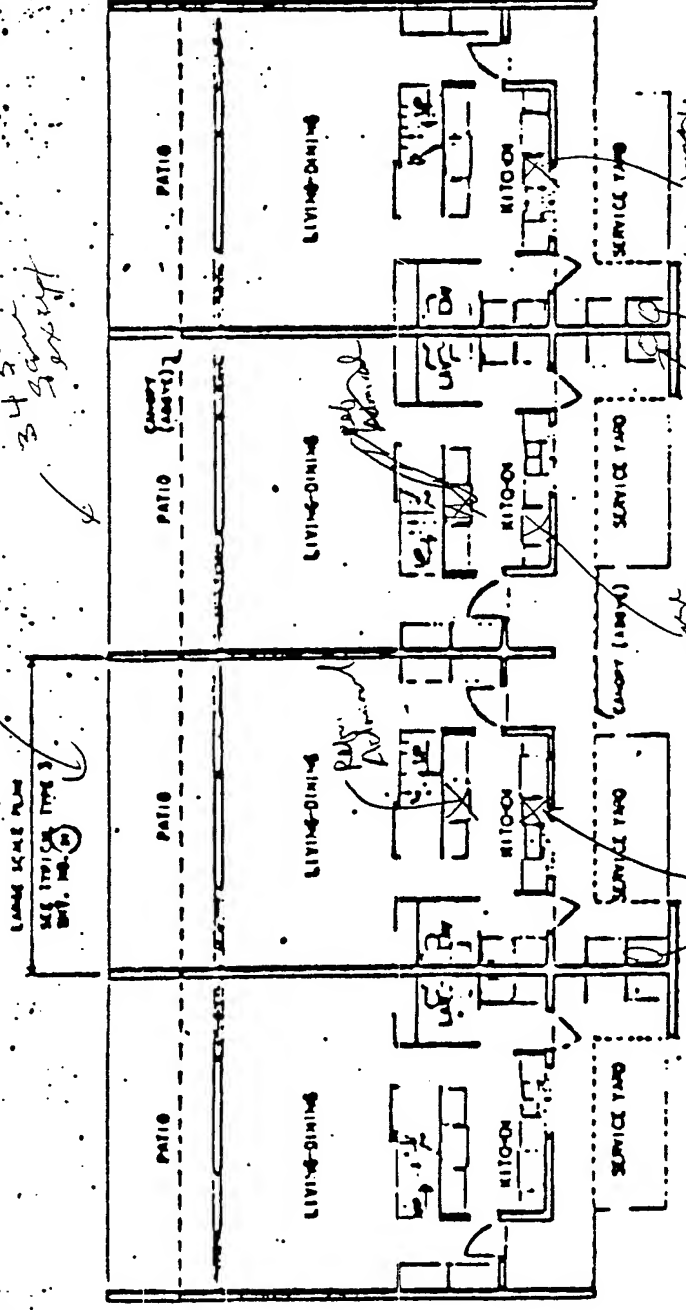
| | |
|--|--------------|
| FAMILY ROOMS | |
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CAPITAL HOUSE NO. 3411, 1957, 1958, 1959 | |
| FIRST AND SECOND FLOOR PLANS TYPE B | |
| SCHEDULED BUILDINGS | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |
| COMPS OF CHICAGO | |
| HONOLULU, HAWAII | |
| LOC. CODE 3478 | 25 23 OF 347 |
| MAY 1953 | |



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3430 B
3430 C
3430 D
3430 E
3430 F

SEE SITE PLAN TYPE 3
BUD. NO. 3411



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

same but
working white
kitchen



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3713

Building Type: 57-VI

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 3

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 37-111

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

Same as SM-III

a. Is System Supported from (check one):

_____ Individual EWH/Unit

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

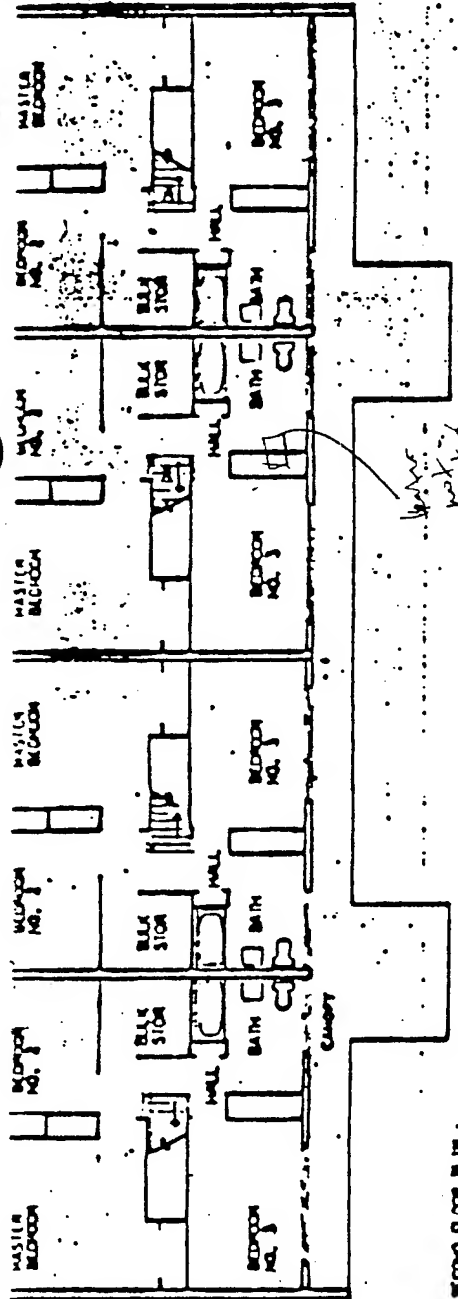
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|------------------|
| Kit Sk. | 22/105 | 98 | Doing Wash w/ Hw |
| Shwr | 32/105 | — | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

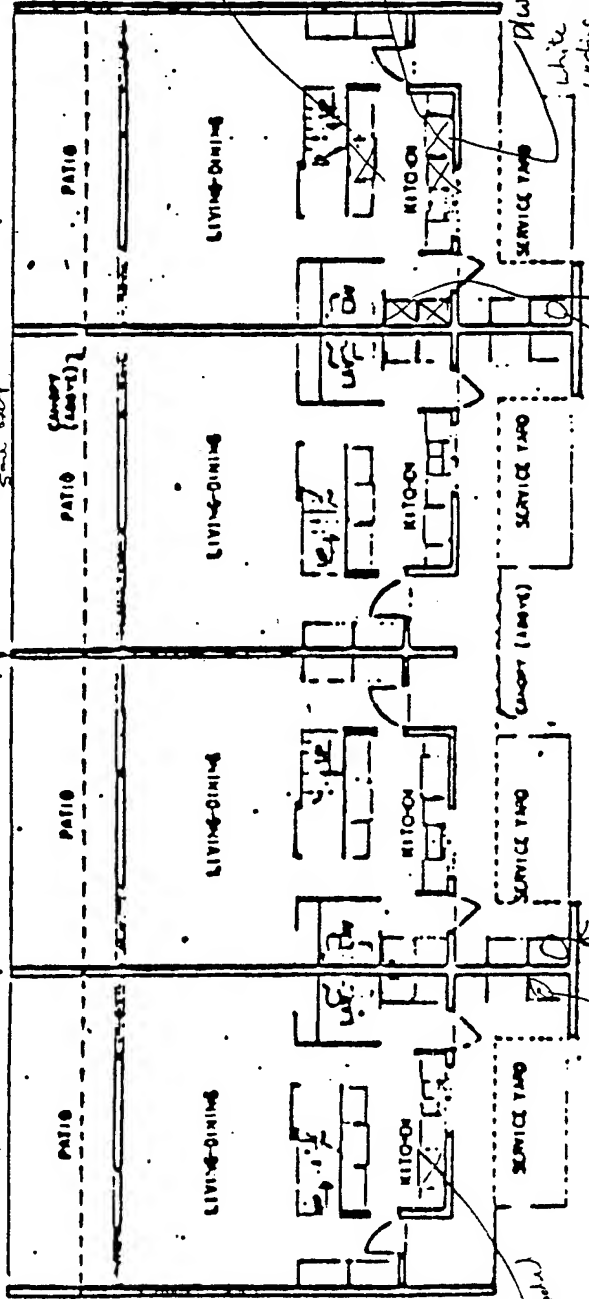
Bill. Tyner



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3704A
same except

3713 B
same except



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

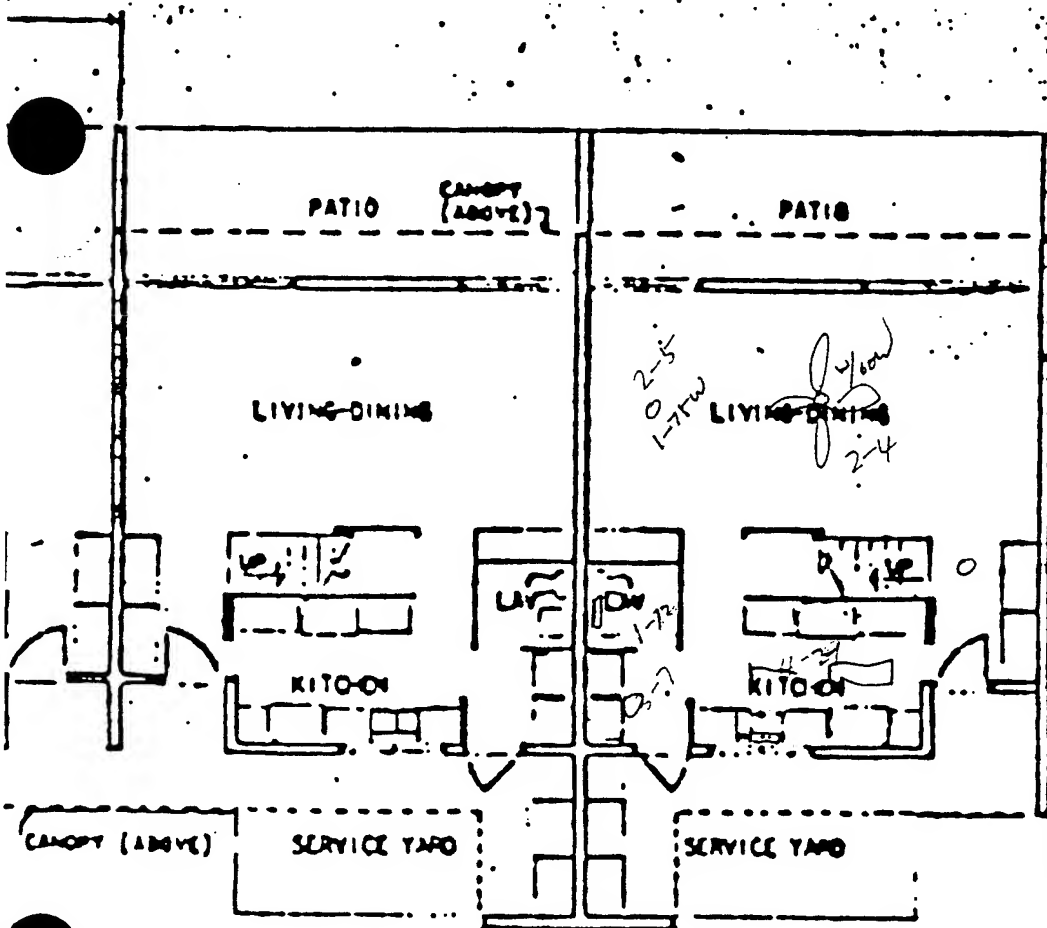
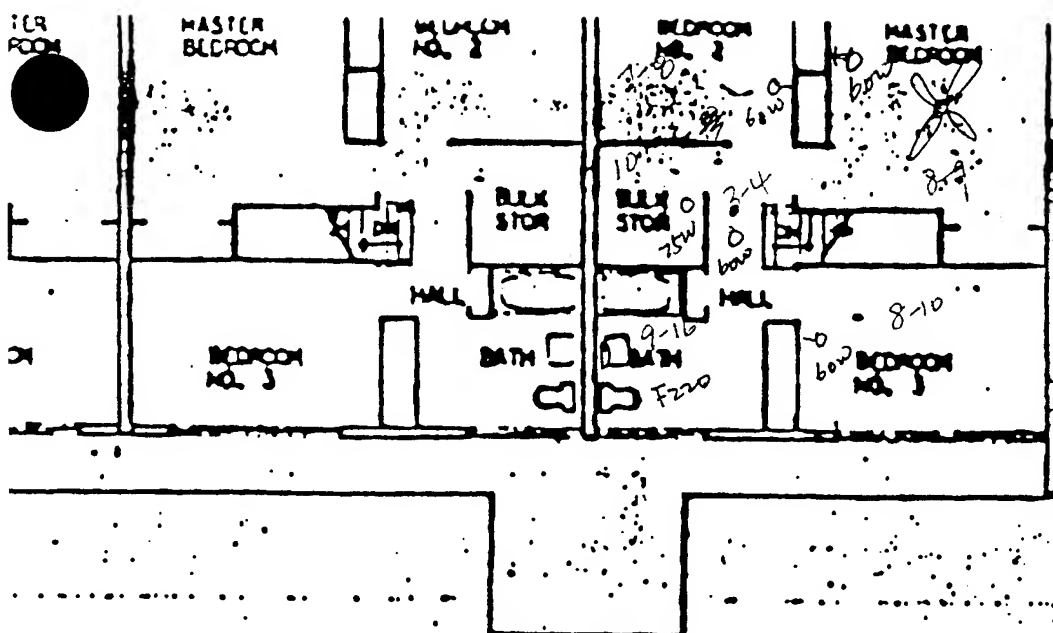
Refining - Gibson
BUILDING NUMBER
3430, 3408, 3708, 3713
3720, 3800
SEE SITE PLAN SHEET 67 FOR LOCATION

Range - Verten w/ Nuts & Bolts
Type 57-VI

| REVISIONS | | | |
|-----------|----------|------|----|
| 1 | REVISION | DATE | BY |
| 1 | REVISION | DATE | BY |
| 2 | REVISION | DATE | BY |
| 3 | REVISION | DATE | BY |
| 4 | REVISION | DATE | BY |
| 5 | REVISION | DATE | BY |
| 6 | REVISION | DATE | BY |
| 7 | REVISION | DATE | BY |
| 8 | REVISION | DATE | BY |
| 9 | REVISION | DATE | BY |
| 10 | REVISION | DATE | BY |

GRAPHIC SCALE 1/8" = 1'-0"

NOT TO SCALE



3430 ABCD
 3608 ABCD
 3704 ABCD
 3713. ~~ABCD~~

BUILDING NUMBERS

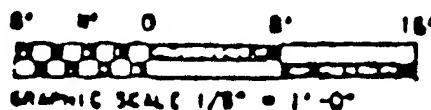
3430, 3608, 3704, 3713
 3720, 3807

SEE SITE PLAN SHEET (67) FOR LOCATION

Type 57-VI

REVISIONS

| | | | | |
|-------------------------------------|--|----|----|----|
| FAMILY HOUSING | | | | |
| BUDGETARY DATA FOR AIR CONDITIONING | | | | |
| CAPEHART HOUSING SCHOOL 195 | | | | |
| FIRST AND SECOND FLOOR PLANS | | | | |
| SCHOOL BUILDINGS | | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | | |
| COMPS OF ENGINEERS | | | | |
| HONOLULU, HAWAII | | | | |
| LOC. CODE 8270 | | 25 | 25 | 07 |



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3713

Building Type: 57-VI

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 8

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted /

Reflective Coating /

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

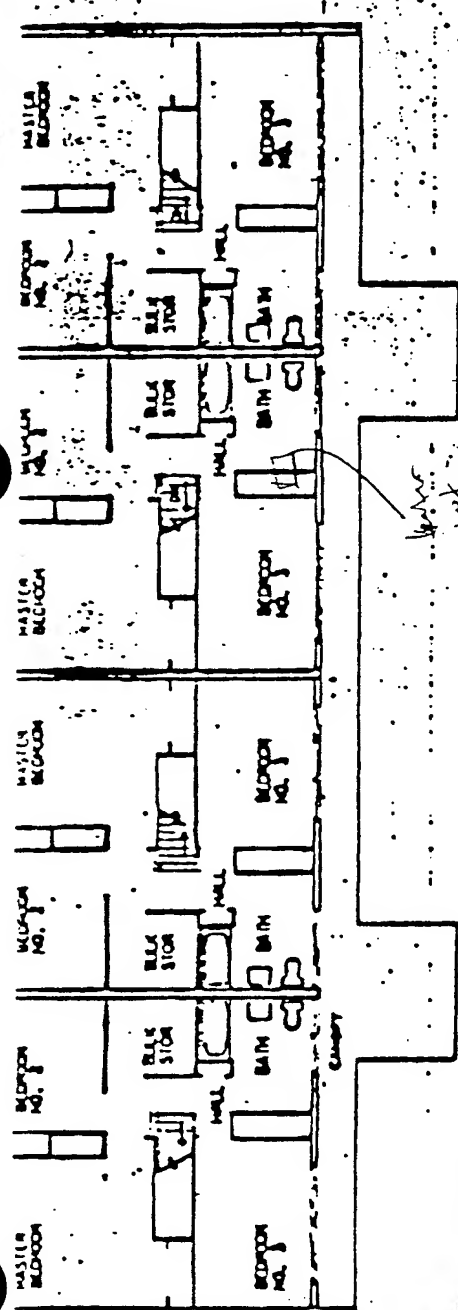
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------|--------|-------------|---------------|
| Kit Sk | 22/105 | 124 | Flow Rest. on |
| Shwr head | 52/105 | 114 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

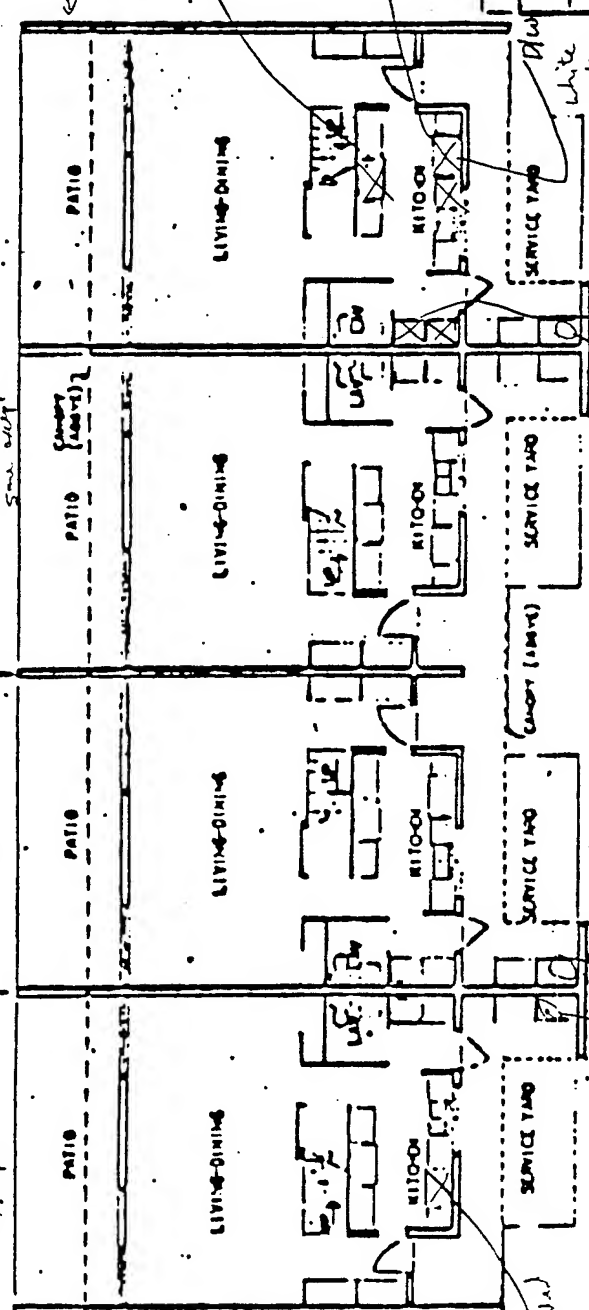
Diff. Type



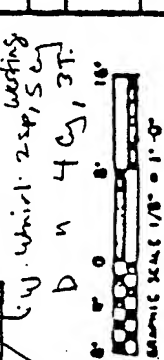
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3704 A
Same except

LONG SCALE PLAN
SEE TRAILER TYPE 3
BTL. NO. 2



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



White cabinet, 2 sp, 5 cu

Refing - Gibson
BUILDING NUMBER
3430, 3400, 3700, 3713
3720, 3800
SEE SITE PLAN SHEET 67 FOR LOCATION

Range - Vector w/ Norton fan
model 860
Type 57-VI

| REVISIONS | | | |
|-----------|----------|------|----|
| 1 | REVISION | DATE | BY |
| 1 | REVISION | DATE | BY |
| 2 | REVISION | DATE | BY |
| 3 | REVISION | DATE | BY |
| 4 | REVISION | DATE | BY |
| 5 | REVISION | DATE | BY |
| 6 | REVISION | DATE | BY |
| 7 | REVISION | DATE | BY |
| 8 | REVISION | DATE | BY |
| 9 | REVISION | DATE | BY |
| 10 | REVISION | DATE | BY |

UP bypassed.

MAY 1973

03

UNIT TYPE 57-VII

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3430

Building Type: S7-V1

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 4

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 12

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-111

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

Same as S.I.-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):
 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit
- b. Domestic Hot Water Temperatures provided: °F
 °F
- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:
- d. Is Piping System Insulated and Condition:
Insulation Thickness:
- e. Is Hot Water Circulated?
1) Condition of circular
2) Circulator capacity
3) Is aquastat provided?
4) Aquastat temperature setting
5) Mfg/Model
6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
b. Areas Served
c. Manufacturer and Model
d. Energy (Oil, Gas, Electric, Coal, Etc.)
e. Type Heaters & Quantities:
1) Storage
2) Instantaneous
3) Semi-Instantaneous
f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

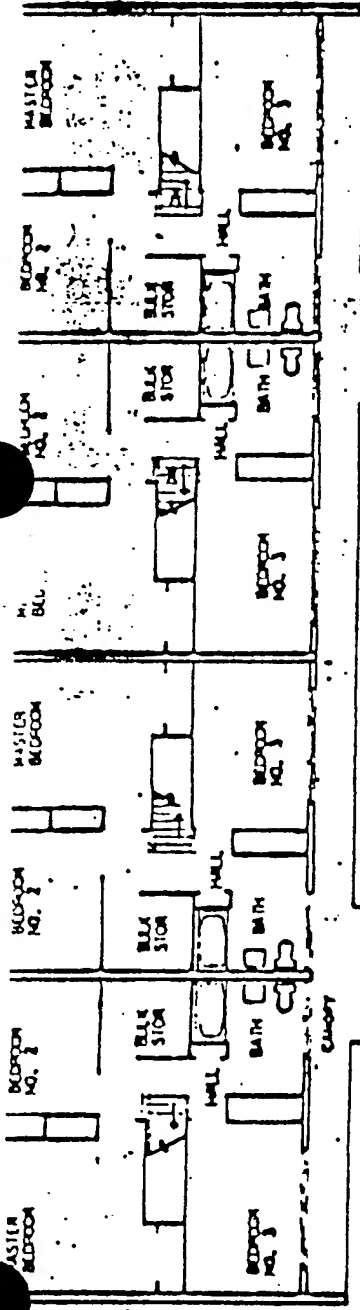
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| KIT SK | 2 1/10 | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Diff. Type

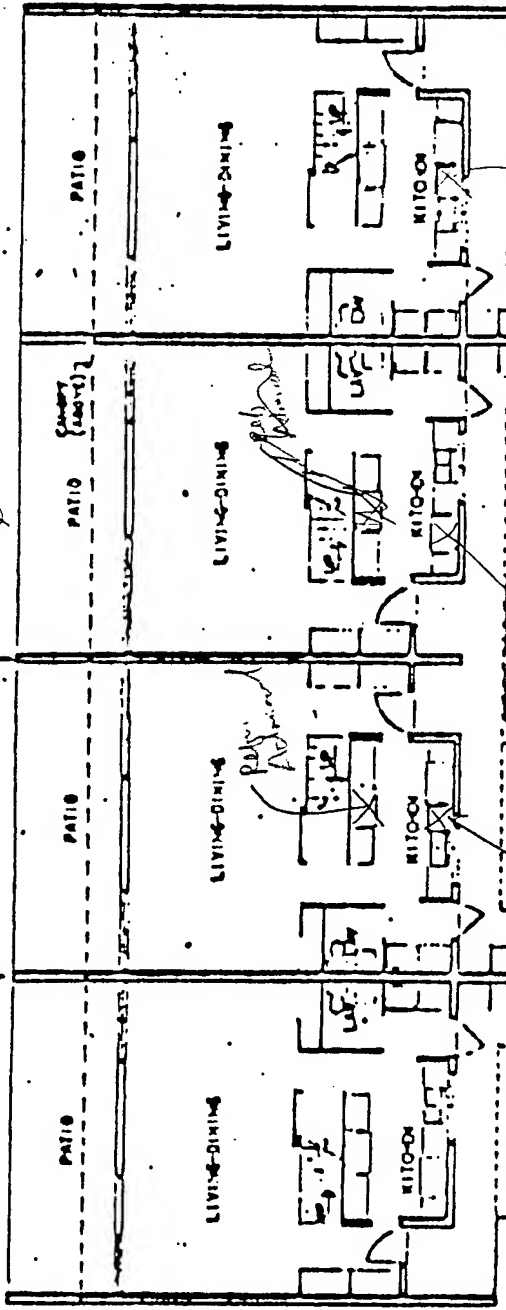


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3430 B

LARGE SCALE PLAN
SEE DIVISION TYPE 3
BUT. INT. 10

3430 C
3430 D
3430 E



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

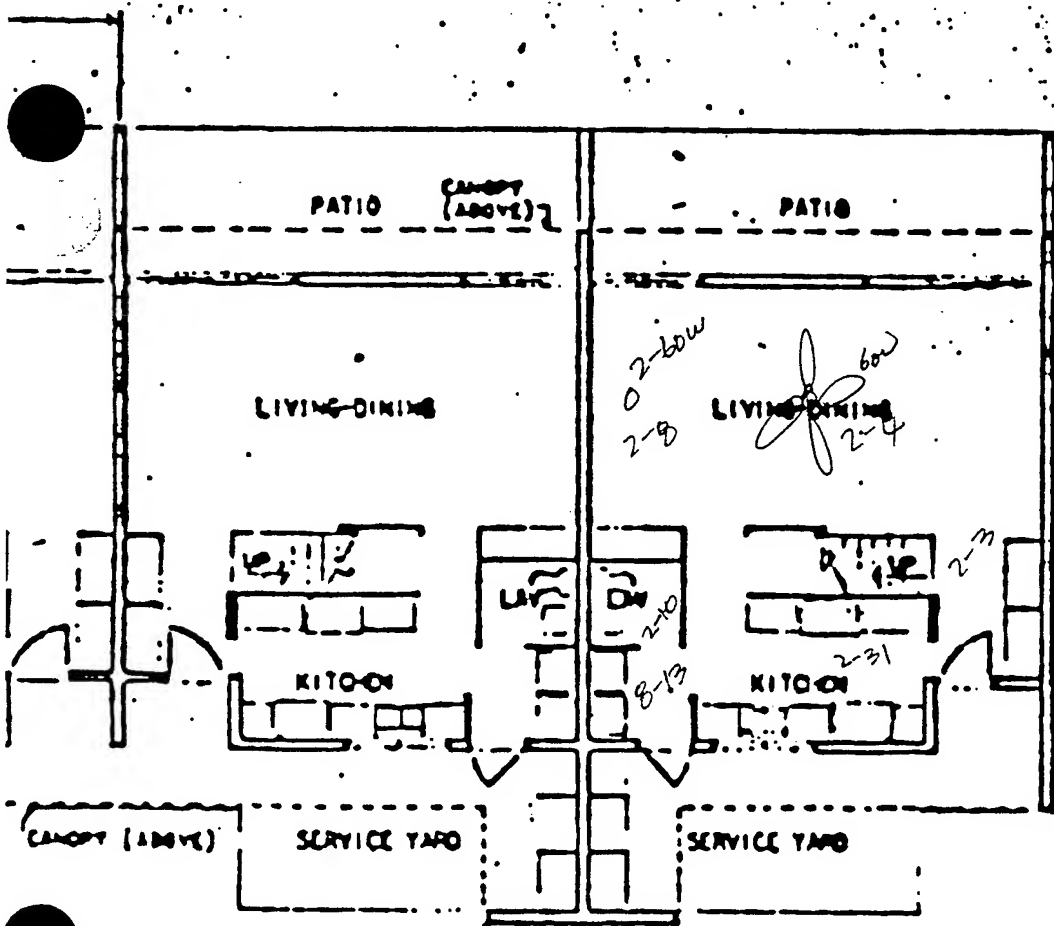
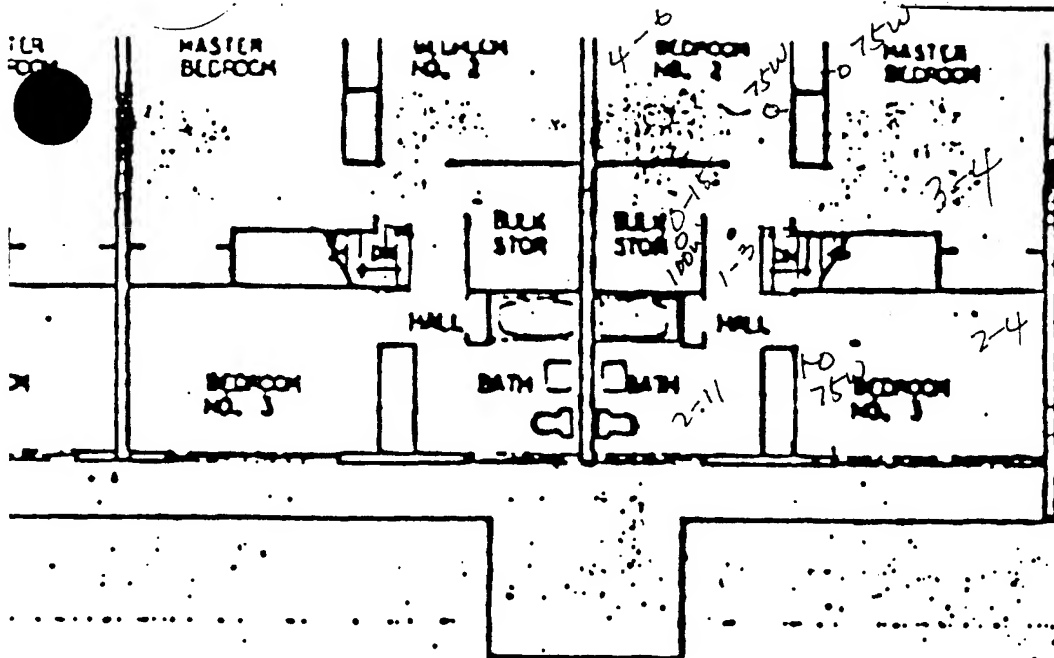
← 3704: D
Same
apartment
as noted

BUILDING NUMBERS
3430, 3431, 3704, 3713
3720, 3807
SEE SITE PLAN SHEET 10 FOR LOCATION

Type S7-VI

| REVISIONS | | | | |
|-----------|---|----|----|----|
| 1 | MODIFY DATA FOR AIR CONDITIONING PROJECTS | | | |
| 2 | CURRENT HOUSES 3000 ELS 1957 AND 1-1 | | | |
| 3 | FIRST TWO SECOND FLOOR PLANS TYPE B | | | |
| 4 | 3000 ELS 3000 ELS 3000 ELS 3000 ELS | | | |
| 5 | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| 6 | COMPS OF CHANGING | | | |
| 7 | MOORE, MOORE | | | |
| 8 | LOC. CODE 370 | 23 | 23 | 23 |
| 9 | | | | |

MAY 1973



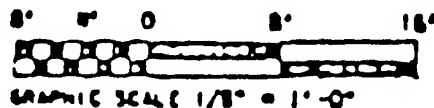
3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS

3430, 3608, 3704, 3713
 3720, 3807

SEE SITE PLAN SHEET (67) FOR LOCATION

Type S7-VI



REVISIONS

| | | | |
|---|----|----|----|
| FAMILY HOUSING | | | |
| SUPPLEMENTARY DATA FOR AIR CONDITIONING | | | |
| CAPEHART HOUSING SCHOFIELD 195 | | | |
| FIRST AND SECOND FLOOR PLANS | | | |
| SCHOFIELD BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 8790 | 25 | 25 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3430

Building Type: 57-V1

Apartment: C

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 3

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 57-III

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

Same as 57-111

a. Is System Supported from (check one):

Several Small Systems per Building

_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

a. Location _____

b. Areas Served _____

c.: Manufacturer and Model _____

d. Energy (Oil, Gas, Electric, Coal, Etc.) _____

e. Type Heaters & Quantities:

- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

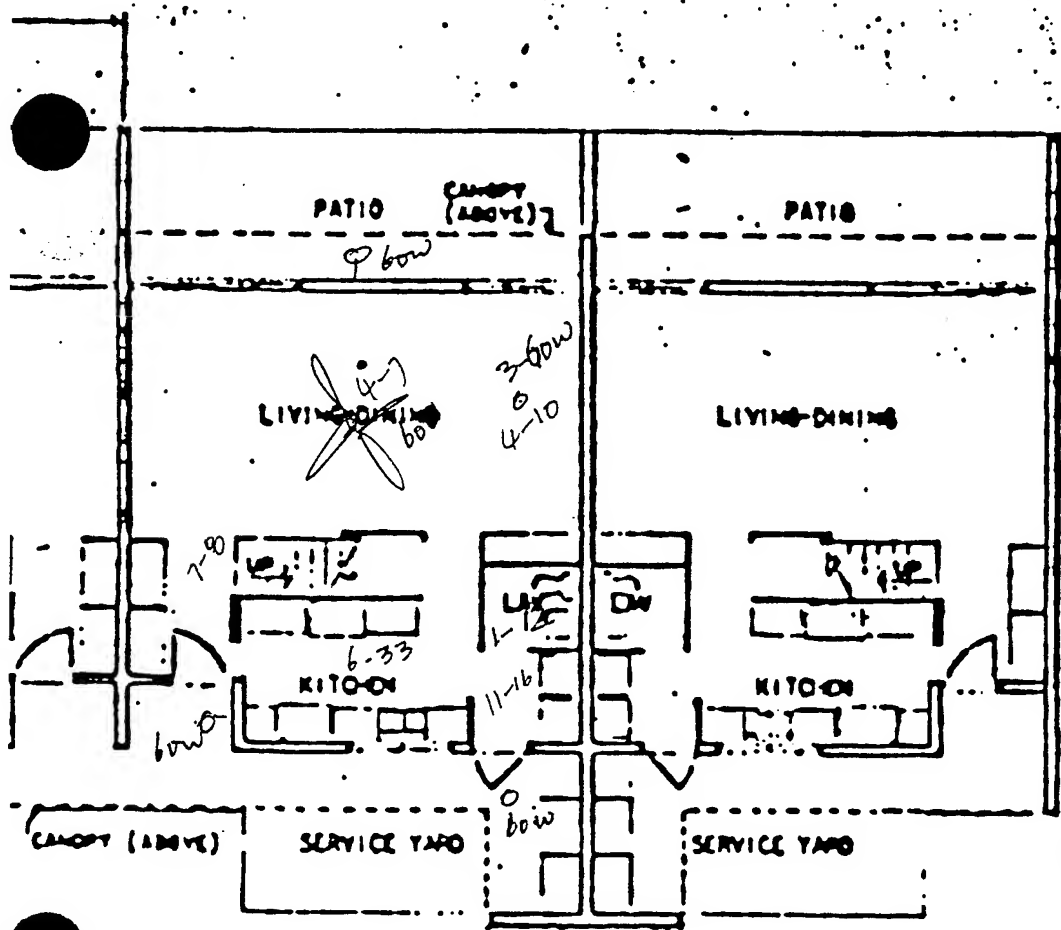
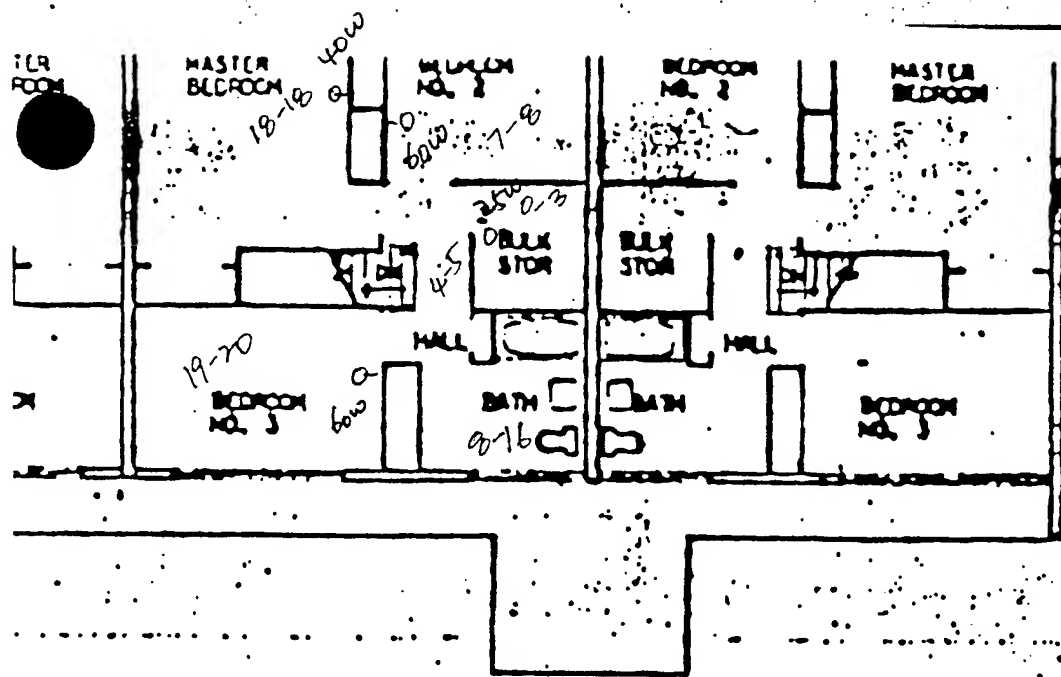
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

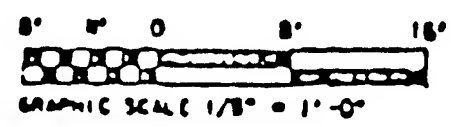
| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| KIT SK | 22/100 | 104 | |
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3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS
 3430, 3608, 3704, 3713
 3720, 3807
 SEE SITE PLAN SHEET (07) FOR LOCATION

Type 57-VI



| REVISIONS | | | | |
|----------------------------------|--|----|----|----|
| FAMILY HOUSING | | | | |
| BUDGETARY DATA FOR AIR CONDITION | | | | |
| CAPEHART HOUSING SOCIETY 195 | | | | |
| FIRST AND SECOND FLOOR PLANS | | | | |
| SCHOFIELD BARRACKS | | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | | |
| CORPS OF ENGINEERS | | | | |
| HONOLULU, HAWAII | | | | |
| LOC. CODE 9270 | | 25 | 23 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3704

Building Type: 57-VI

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 5

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

1) Condition of circulator

2) Circulator capacity

3) Is aquastat provided?

4) Aquastat temperature setting

5) Mfg/Model

6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location

b. Areas Served

c. Manufacturer and Model

d. Energy (Oil, Gas, Electric, Coal, Etc.)

e. Type Heaters & Quantities:

1) Storage

2) Instantaneous

3) Semi-Instantaneous

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

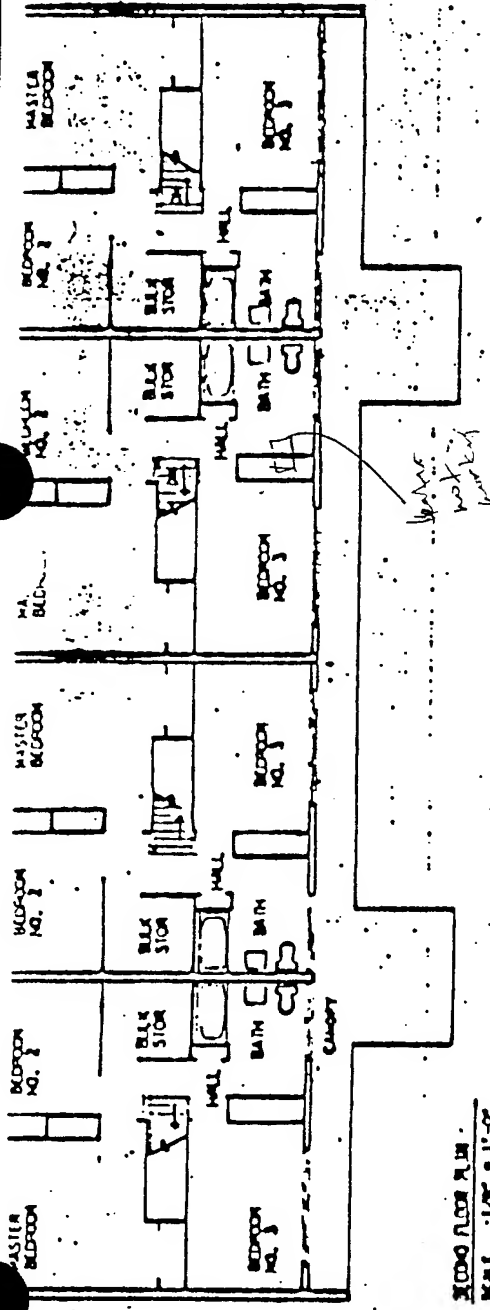
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|------|-------------|---------|
| Kit. SK | 2L | 120 | |
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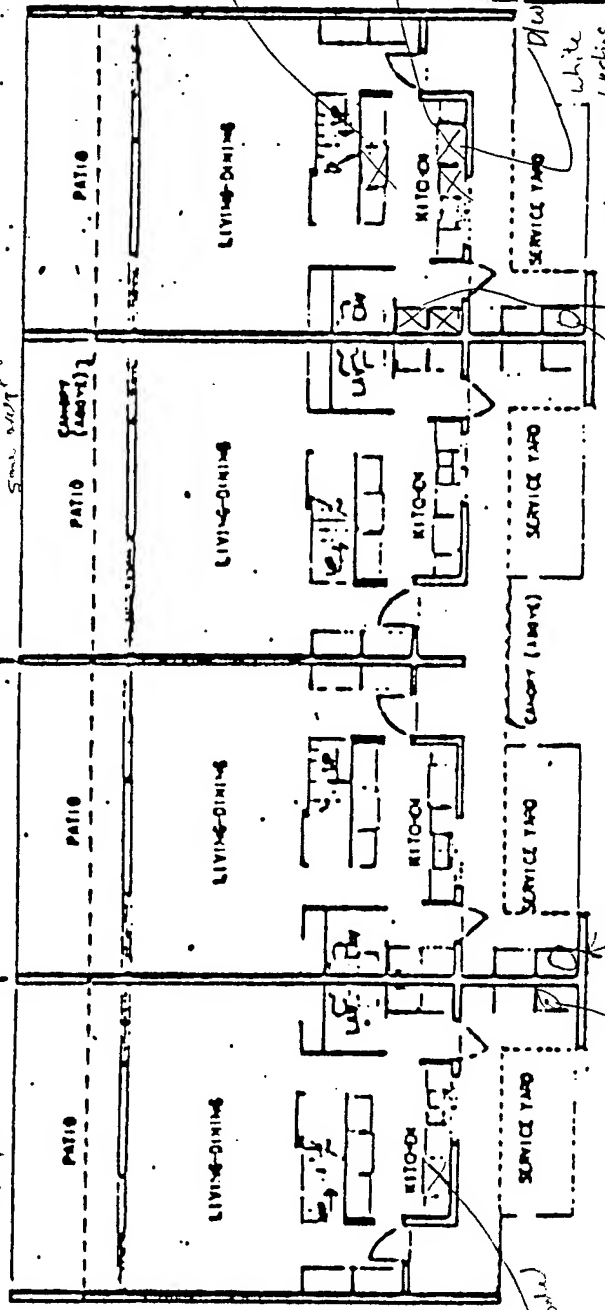
Diff. Type



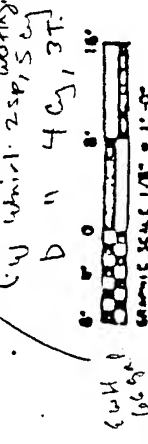
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3704A
Same except

3713 B
Small entry or hall



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



← 3713 D

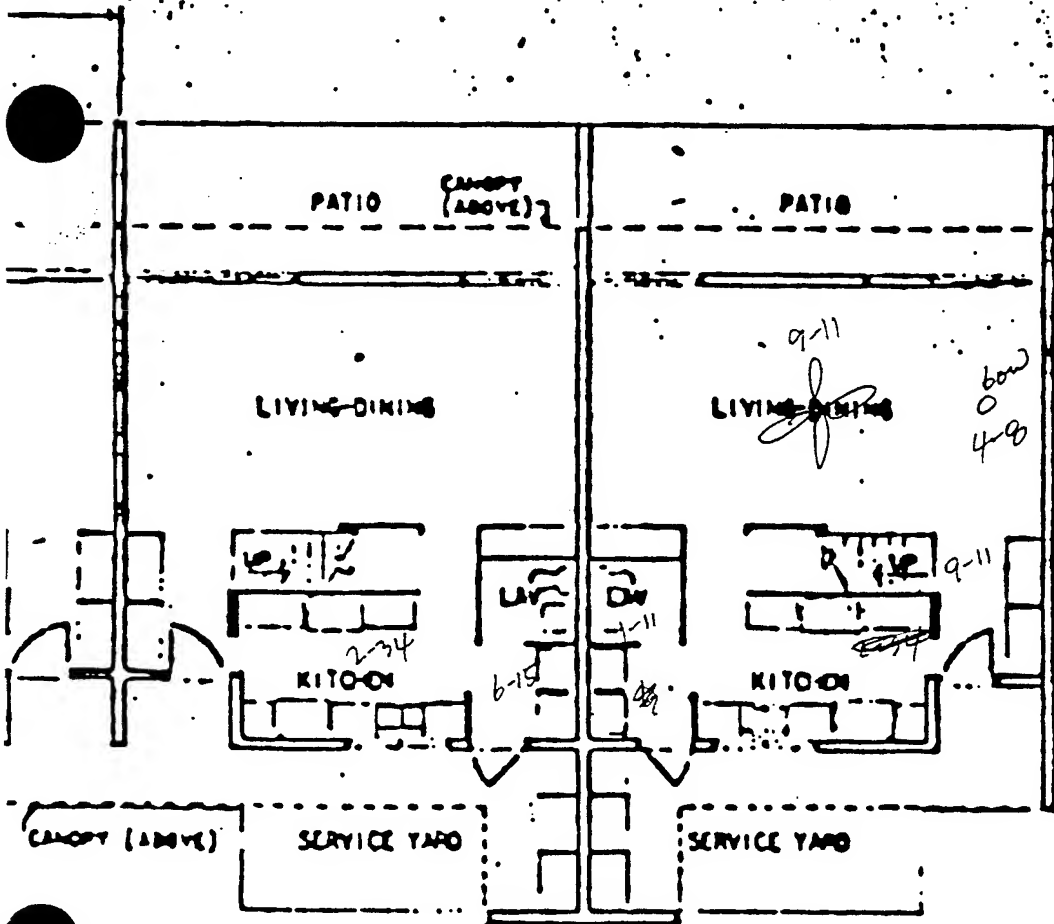
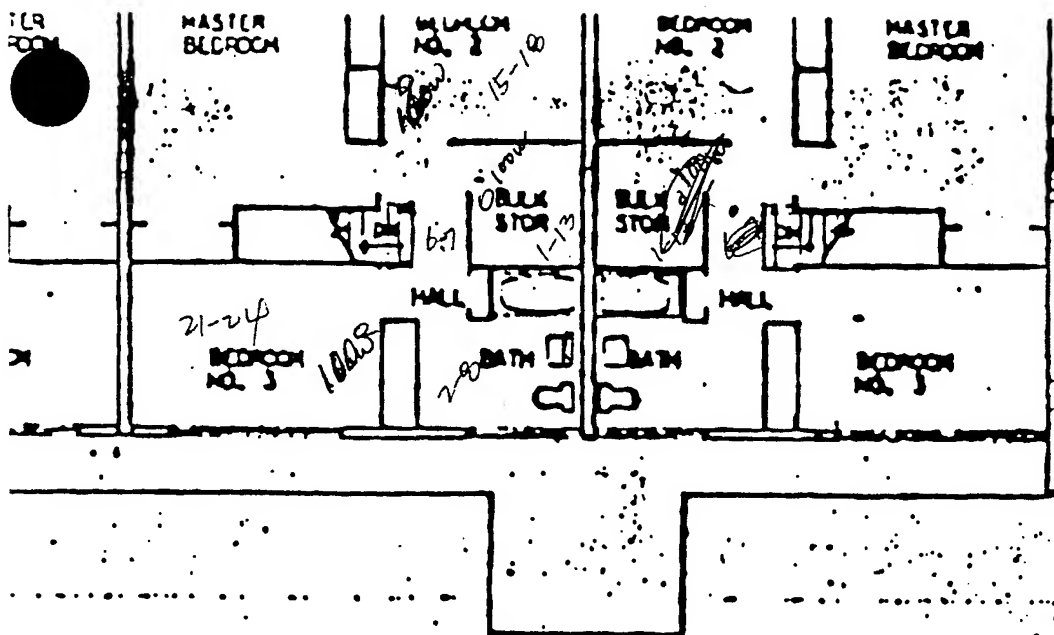
Refing. - Gibson
Building Number
3400, 3402, 3700, 3713
3700, 3702
SEE SITE PLAN 3401 (D) FOR LOCATION

Range - Vertical in Northern
model 800
Type 57-VI

| | | | | | |
|--|----|----|----|-----|----|
| REQUIREMENTS | | | | | |
| FAMILY HOUSING | | | | | |
| SUBJECTIVE DATA FOR AIR CONDITIONING | | | | | |
| CAPACITY HOUSING 2000-2500 FIRST FLOOR TYPE 1 | | | | | |
| FIRST AND SECOND FLOOR PLANS TYPE 2 | | | | | |
| SCHEMATIC DRAWINGS | | | | | |
| U. S. NAVY ENGINEERING DIVISION, PACIFIC OCEAN | | | | | |
| COMPS OF DRAWINGS | | | | | |
| NOVEMBER, 1961 | | | | | |
| LOC. CODE 3700 | 25 | 23 | 07 | 301 | 10 |

MAY 1963

11P pages



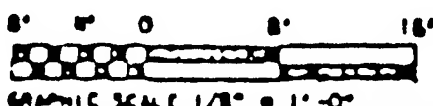
3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS

3430, 3608, 3704, 3713
 3720, 3807

SEE SITE PLAN SHEET (07) FOR LOCATION

Type S7-VI



| REVISIONS | | | |
|---|----|----|----|
| FAMILY HOUSING | | | |
| SUPPLEMENTARY DATA FOR AIR CONDITIONING | | | |
| CAPEHART HOUSING SCHOFFIELD 195 | | | |
| FIRST AND SECOND FLOOR PLANS | | | |
| SCHOFFIELD BARRACKS | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | |
| COMPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 8270 | 25 | 23 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3704

Building Type: 57-V1

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8 from 5 pm

No. of Occupants: 5

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 2

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-HI

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

1) Condition of circular

2) Circulator capacity

3) Is aquastat provided?

4) Aquastat temperature setting

5) Mfg/Model

6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location

b. Areas Served

c. Manufacturer and Model

d. Energy (Oil, Gas, Electric, Coal, Etc.)

e. Type Heaters & Quantities:

1) Storage

2) Instantaneous

3) Semi-Instantaneous

f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

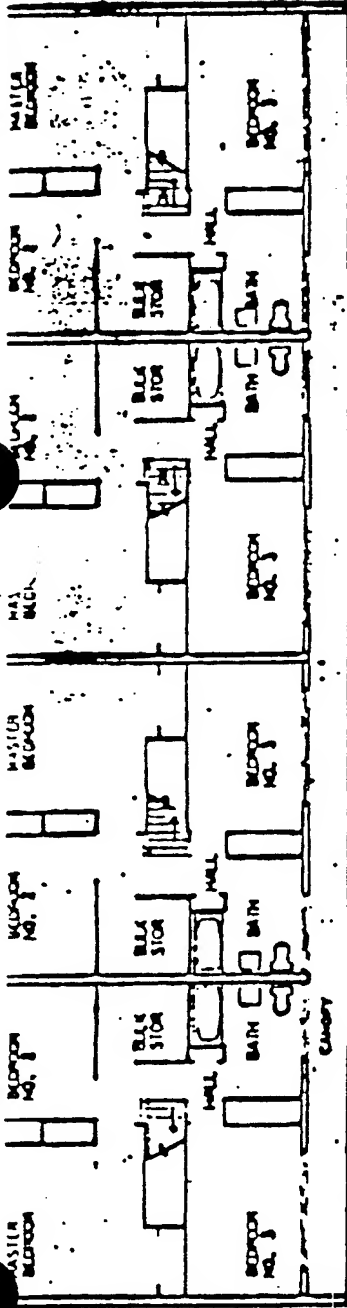
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit SK | 24/105 | 120 | |
| | | | |
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Disc. Type

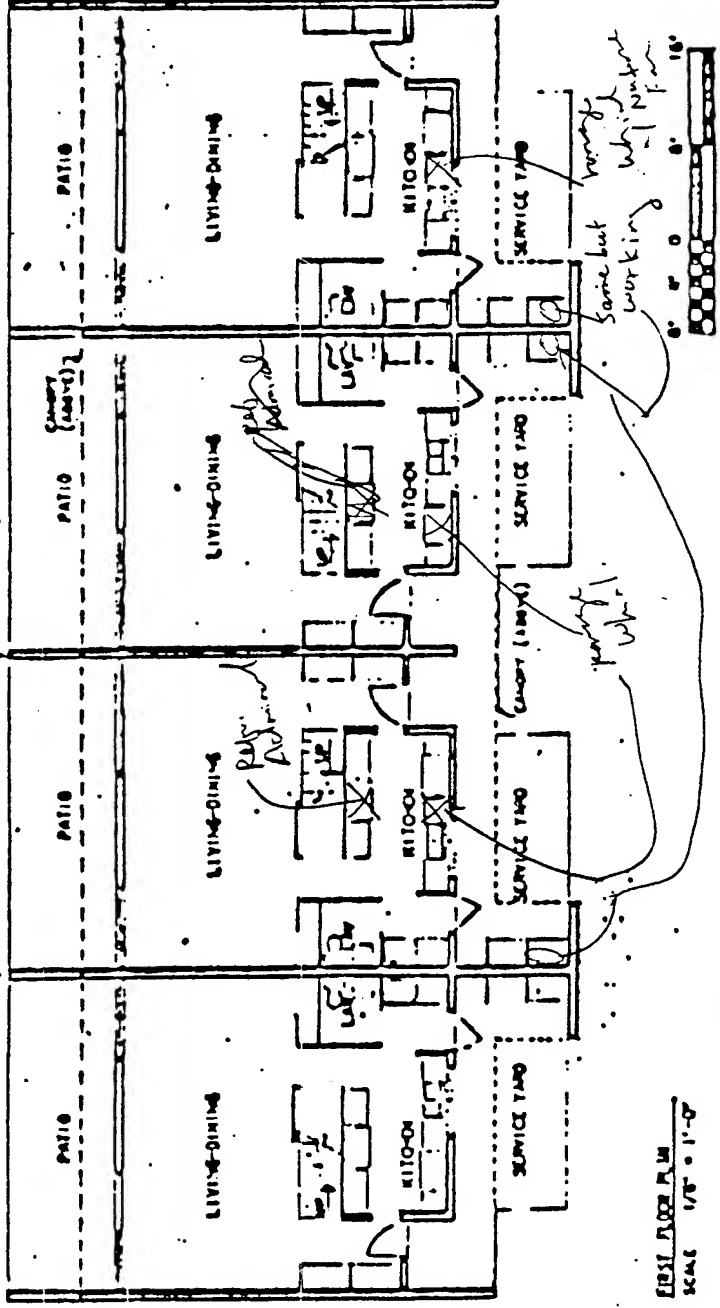


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3430 B

3430 C
3430 D
3430 E

SCALE 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

← 3704 D
Same except
as noted

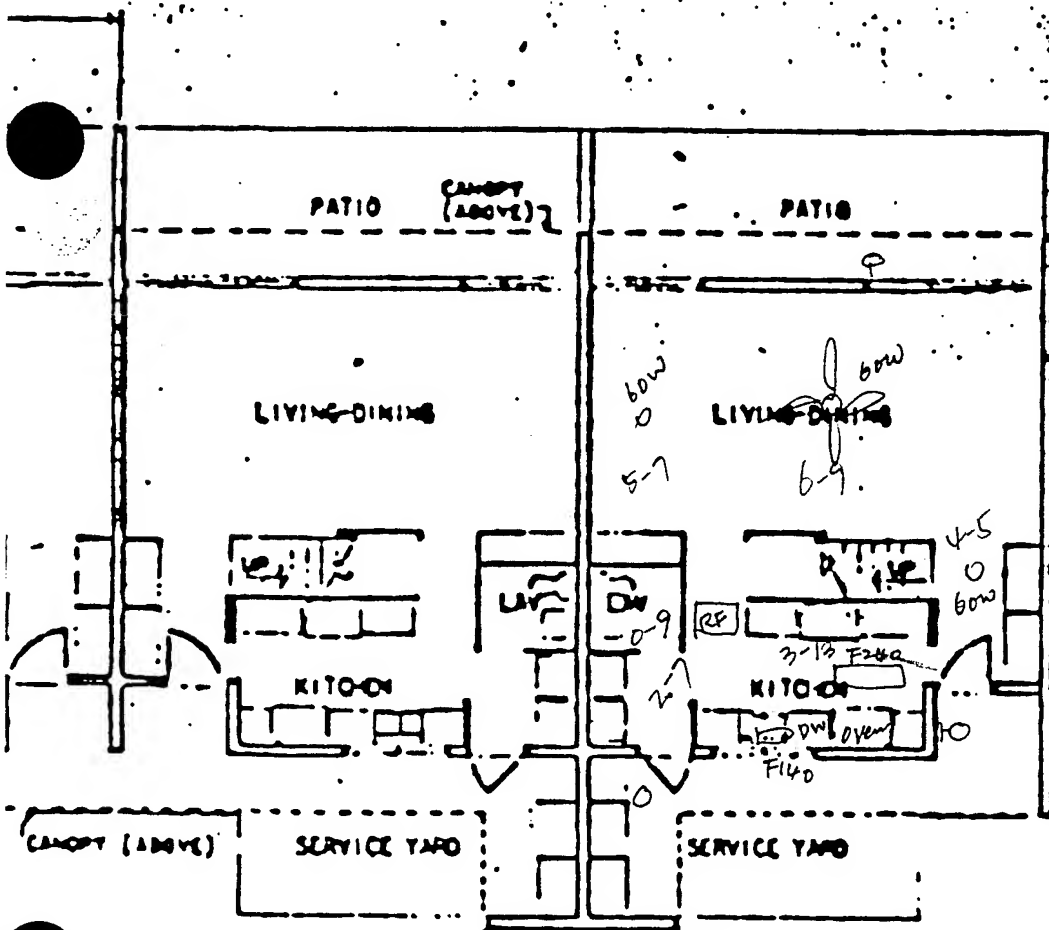
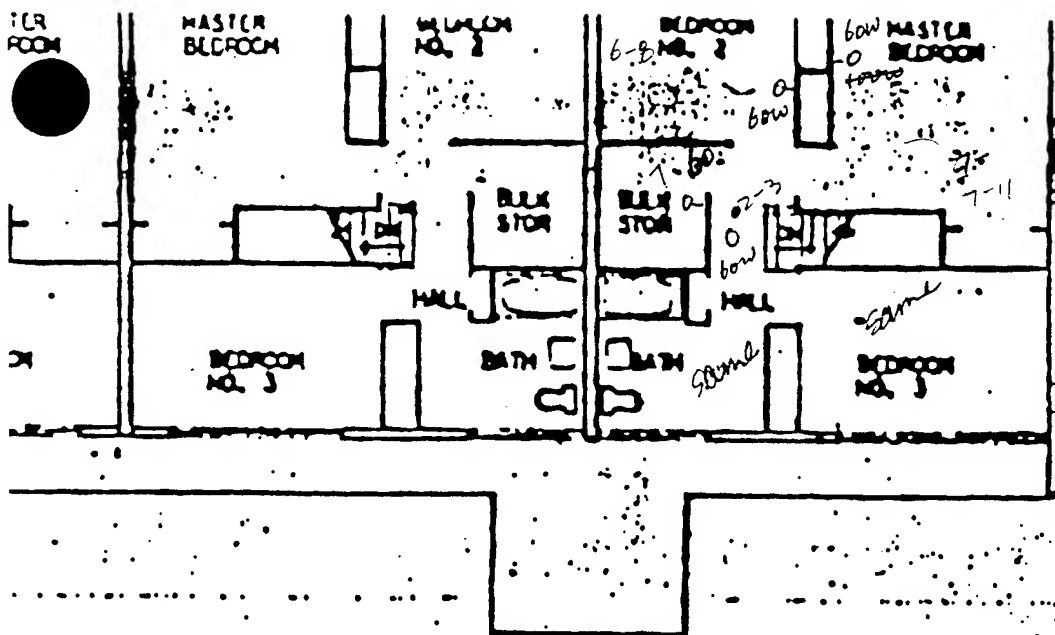
BUILDING NUMBER
3430, 3431, 3704, 3713
3720, 3727
SEE SITE PLAN SHEET 67 FOR LOCATION

Type S7-VI

| REVISIONS | | | |
|-----------|----------|------|----|
| 1 | REVISION | DATE | BY |
| 1 | REVISION | DATE | BY |
| 2 | REVISION | DATE | BY |
| 3 | REVISION | DATE | BY |
| 4 | REVISION | DATE | BY |
| 5 | REVISION | DATE | BY |
| 6 | REVISION | DATE | BY |
| 7 | REVISION | DATE | BY |
| 8 | REVISION | DATE | BY |
| 9 | REVISION | DATE | BY |
| 10 | REVISION | DATE | BY |
| 11 | REVISION | DATE | BY |
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| 98 | REVISION | DATE | BY |
| 99 | REVISION | DATE | BY |
| 100 | REVISION | DATE | BY |

MAP 1373

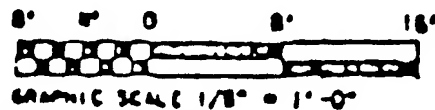
03



3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS
 3430, 3608, 3704, 3713
 3720, 3807
 SEE SITE PLAN SHEET (67) FOR LOCATION

Type 57-VI



| REVISIONS | | | |
|-------------------------------------|----|----|----|
| FAMILY HOUSING | | | |
| BUDGETARY DATA FOR AIR CONDITIONING | | | |
| CAPEHART HOUSING SCHOOL 195 | | | |
| FIRST AND SECOND FLOOR PLANS | | | |
| SCHOOL BUILDINGS | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE B270 | 25 | 23 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3713

Building Type: 57-VI

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 3

Average No. of Showers/Day: 2

Average No. of Laundry Loads/Week: 10

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 37-111

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

Same as
57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

 Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F
 °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

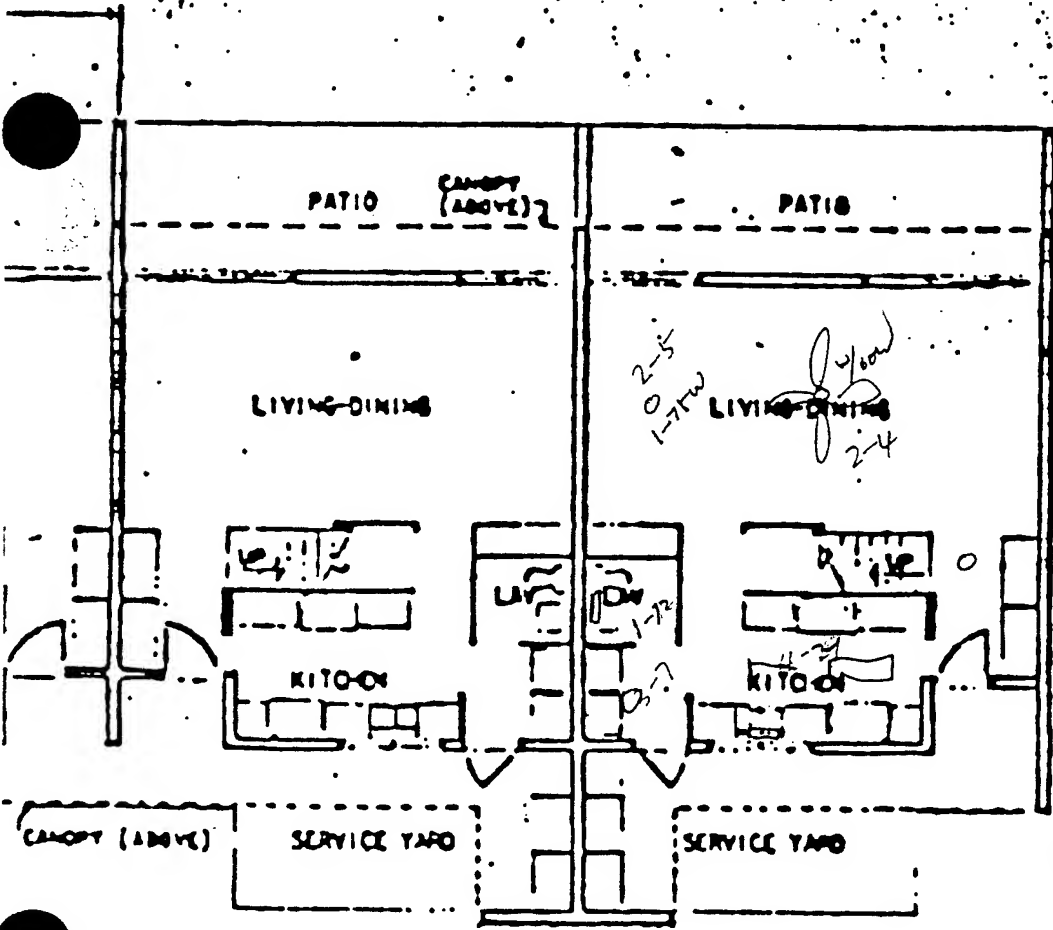
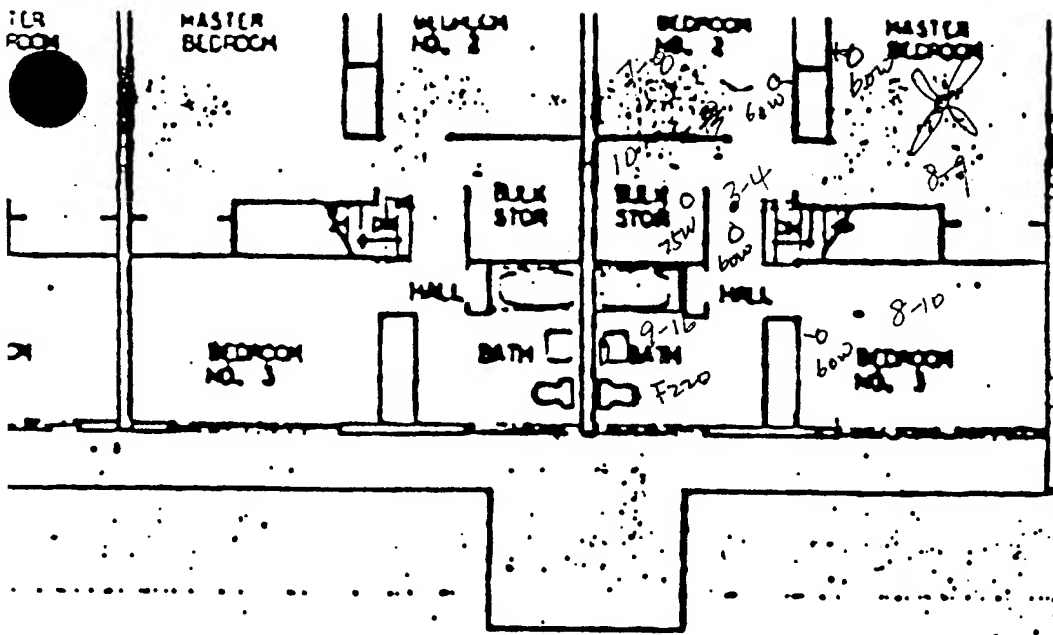
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

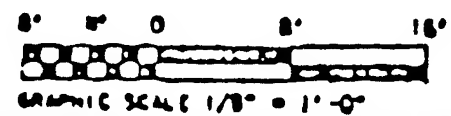
| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|------------------|
| Kit Sk. | 22/105 | 98 | Doing Wash w/ Hw |
| Shwr | 32/105 | — | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



3430 ABCD
 3608 ABCD
 3704 ABCD
 3713. ~~ABCD~~

BUILDING NUMBERS
 3430, 3608, 3704, 3713
 3720, 3807
 SEE SITE PLAN SHEET (67) FOR LOCATION

Type 57-VI



| REVISIONS | | | | |
|-------------------------------------|--|----|----|----|
| FAMILY HOUSING | | | | |
| BUDGETARY DATA FOR AIR CONDITIONING | | | | |
| CAPEHART HOUSING SCHOFIELD 195 | | | | |
| FIRST AND SECOND FLOOR PLANS | | | | |
| SCHOFIELD BARRACKS | | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | | |
| COMPS OF ENGINEERS | | | | |
| HONOLULU, HAWAII | | | | |
| LOC. CODE 8799 | | 25 | 25 | 07 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3713

Building Type: 57-VI

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 8

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

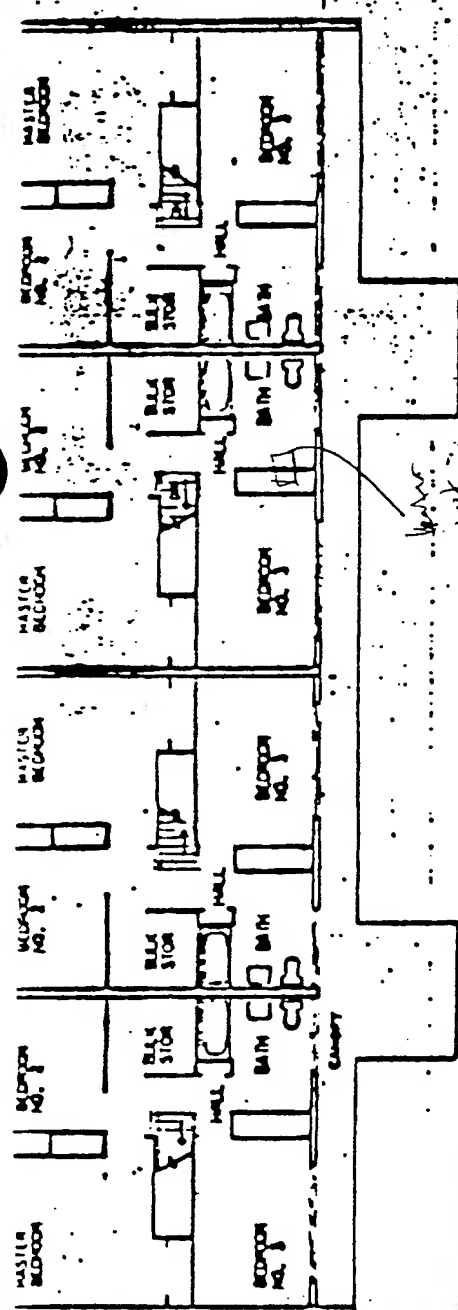
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------|--------|-------------|--------------|
| Kit Sk. | 22/105 | 124 | Flow Rest on |
| Shwr head | 52/105 | 114 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

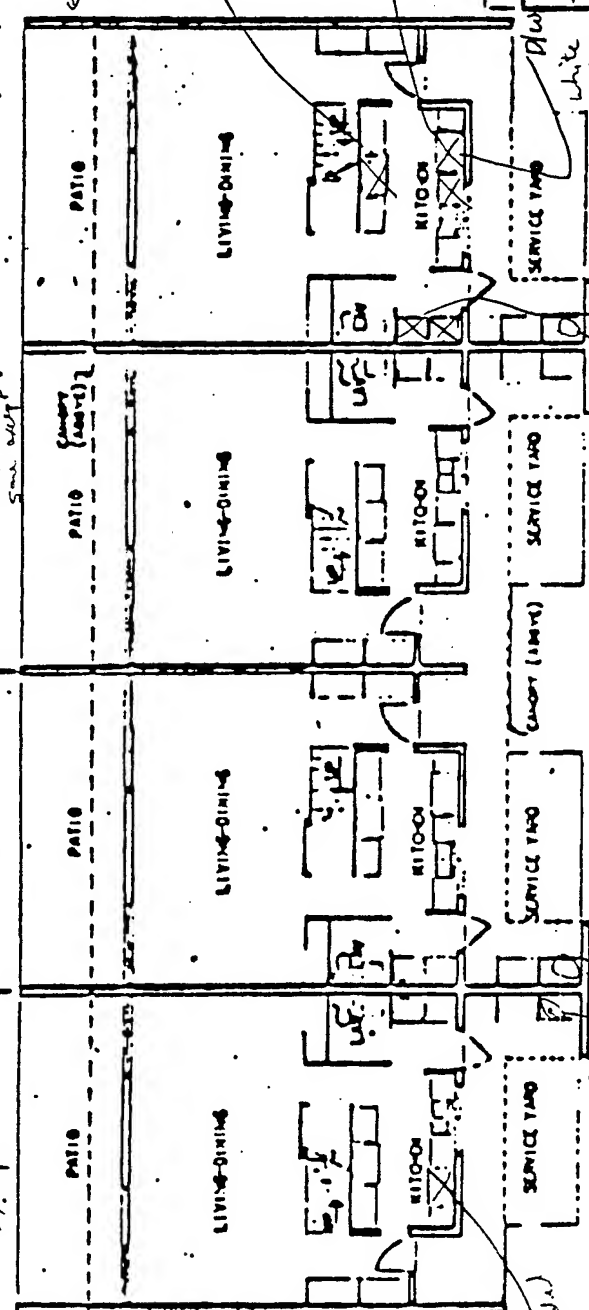
Disc. Type



SINGLE FLOOR PLAN
SCALE 1/8" = 1'-0"

3704A
Same except

SINGLE FLOOR PLAN
SCALE 1/8" = 1'-0"



SINGLE FLOOR PLAN
SCALE 1/8" = 1'-0"

← 3713 D

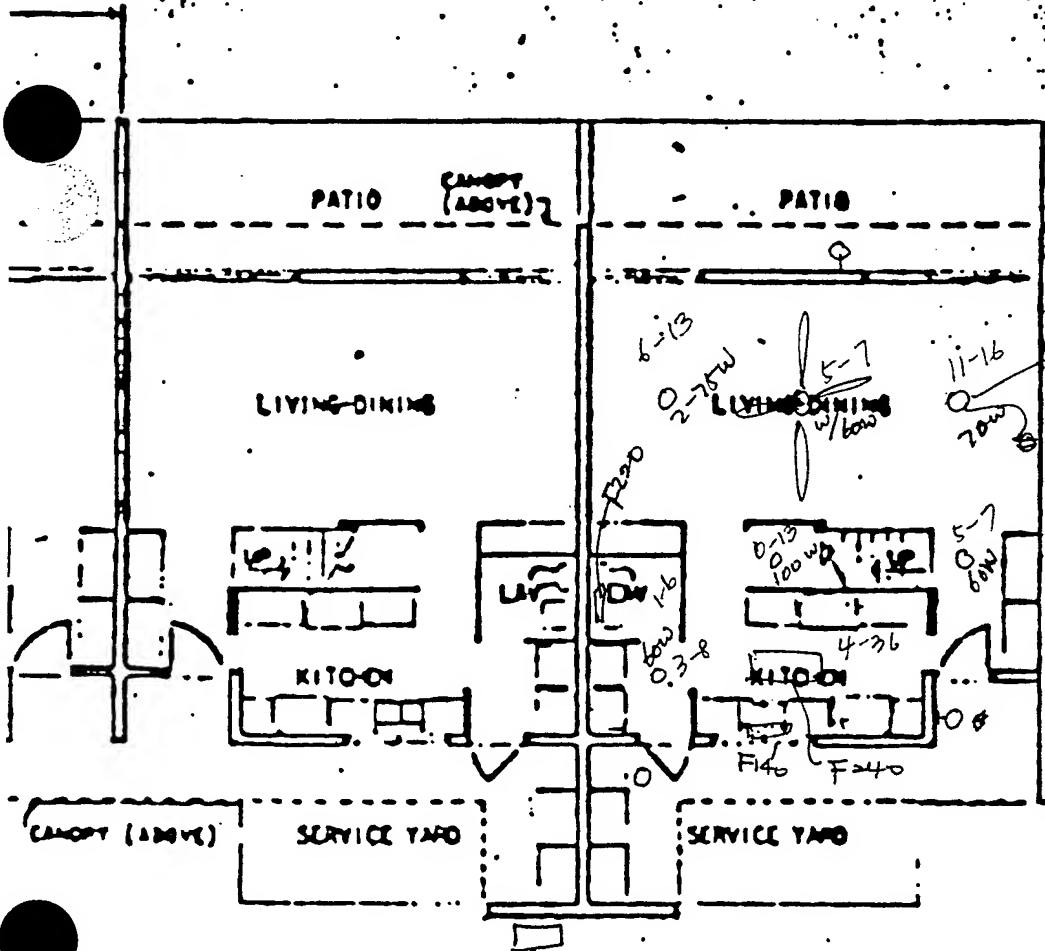
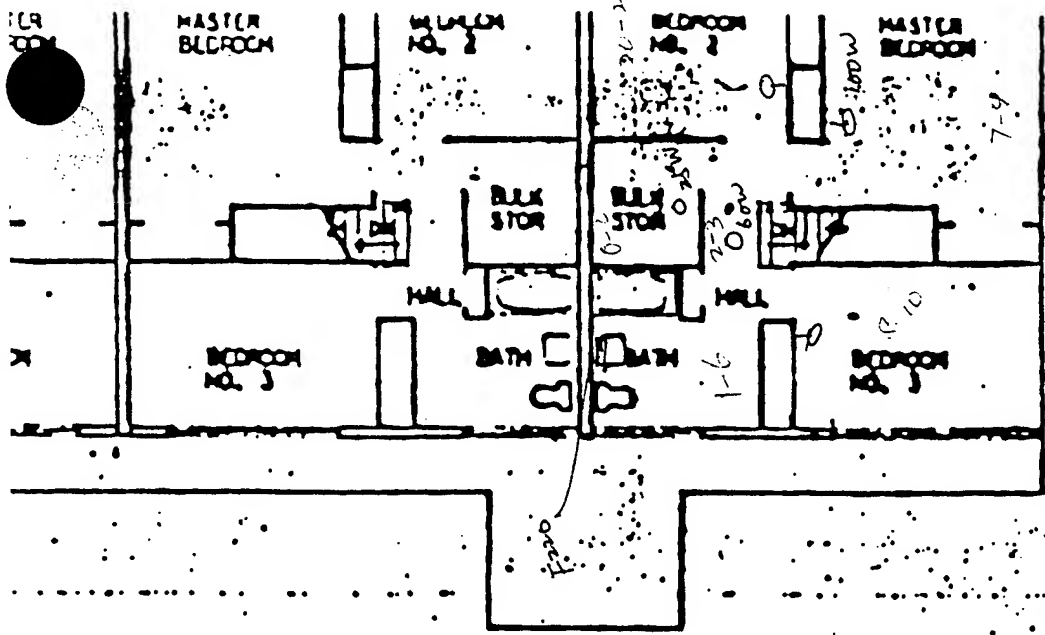
Refined - Gibson Frost Free
BUILDING NUMBER
3420, 3600, 3700, 3713
3720, 3800
SEE SITE PLAN 3421 (D) FOR LOCATION

Range - Verta w/ Nutan for model 860
Type 57-VI

| REVISIONS | | | | | | | | | |
|---|----|----|----|----|----|--|--|--|--|
| FAMILY HOUSING | | | | | | | | | |
| SUBMITTAL DATA FOR AIR CONDITIONING PERMITS | | | | | | | | | |
| CAPITOL HOUSING SOCIETY 1967 AREA C-1 | | | | | | | | | |
| FIRST AND SECOND FLOOR PLANS TYPE B | | | | | | | | | |
| SCHEMATIC BUILDINGS | | | | | | | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | | | | | | | |
| COMPS OF CHANGING | | | | | | | | | |
| MODULAR, HAWAII | | | | | | | | | |
| LOC. CODE 8470 | 25 | 23 | 07 | 54 | 10 | | | | |
| MAY 1967 | | | | | | | | | |

White
Wedding
Cyl. whirl 2 sp, 5 cy
D N 4 cy, 3T.
8' 0" 0' 8' 10"
GRAPHIC SCALE 1/8" = 1'-0"

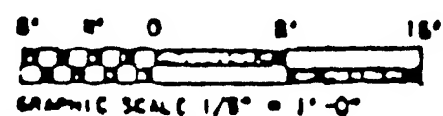
UP bypassed.



3430 ABCD
 3608 ABCD
 3704 ABCD
 3713 ABCD

BUILDING NUMBERS
 3430, 3608, 3704, 3713
 3720, 3807
 SEE SITE PLAN SHEET (07) FOR LOCATION

Type 57-VI



| REVISIONS | | | | |
|-------------------------------------|--|----|----|----|
| FAMILY HOUSING | | | | |
| BUDGETARY DATA FOR AIR CONDITIONING | | | | |
| CAPEHART HOUSING SCHOFIELD 125 | | | | |
| FIRST AND SECOND FLOOR PLANS | | | | |
| SCHOFIELD BARRACKS | | | | |
| U. S. ARMY ENGINEER DIVISION, PM | | | | |
| COMPS OF ENGINEERS | | | | |
| HONOLULU, HAWAII | | | | |
| LOC. CODE 8770 | | 25 | 25 | 07 |

UNIT TYPE 57-VII

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3900

Building Type: 57-VII

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: after 5 pm

No. of Occupants: 2

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: Not used

Remarks: _____

2.0 ARCHITECTURAL

Same as 57 - III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

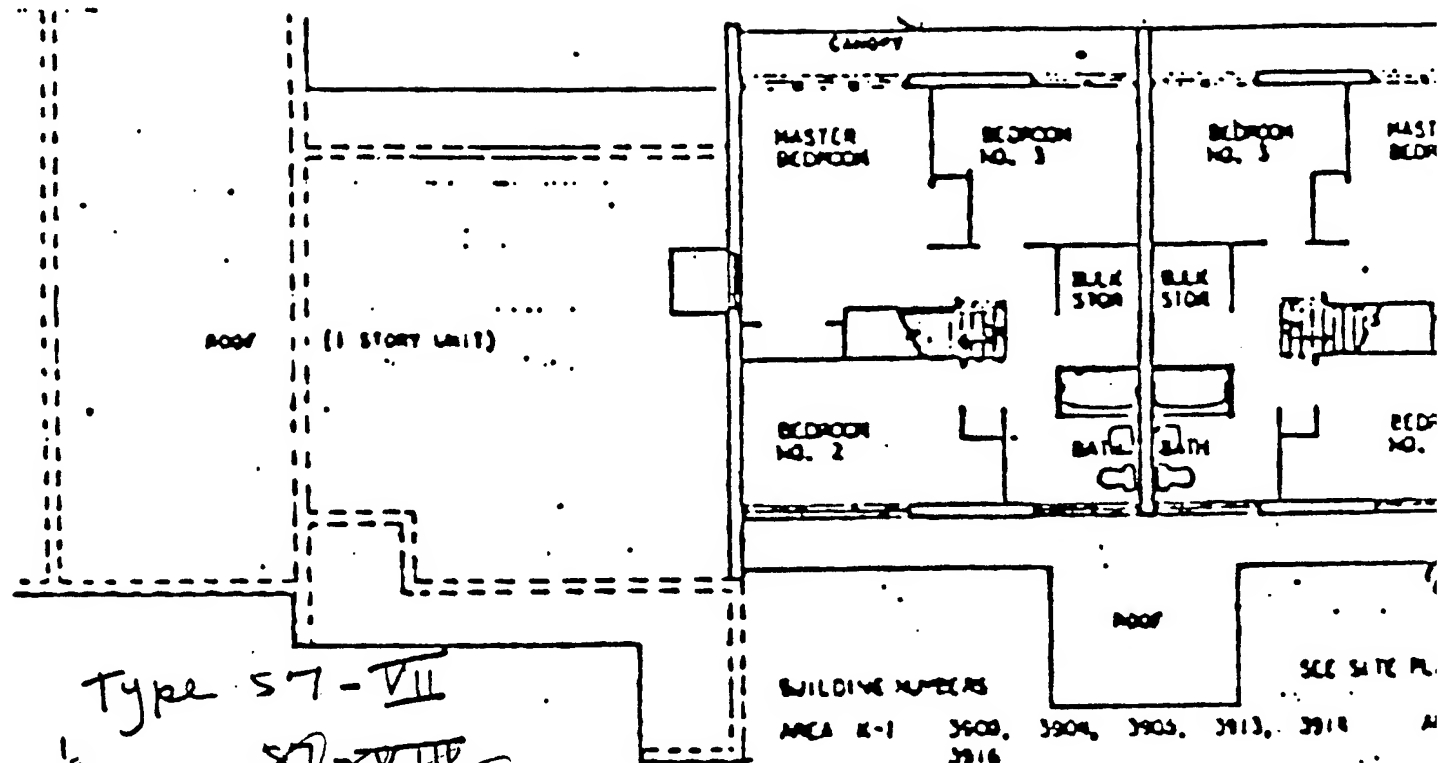
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit SK | 21/105 | 112°F | |
| | | | |
| | | | |
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| | | | |
| | | | |



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3900A 3913A
3904A 3914E
3905E 3916A

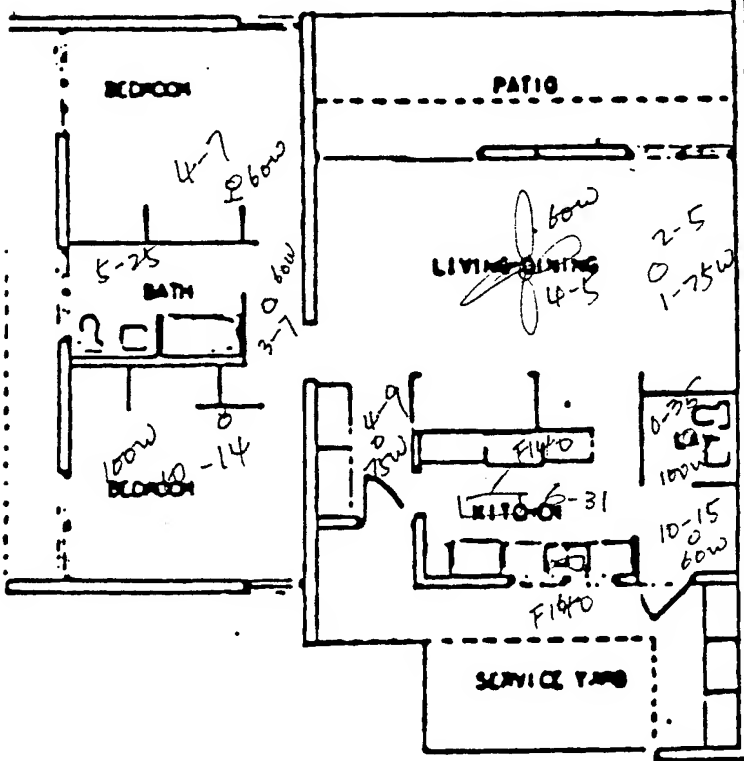
BUILDING NUMBERS

| | | | |
|----------|--------------------------------|--------------------------------|--|
| AREA K-1 | 3900, 3916 | 3904, 3905, 3913, 3914 | 3916 |
| AREA T | NO. 1, NO. 13, NO. 29, NO. 112 | NO. 2, NO. 17, NO. 32, NO. 116 | NO. 4, NO. 18, NO. 102, NO. 117, NO. 110, NO. 21, NO. 103, NO. 118 |

SEE SITE PL.

LARGE SCALE PLAN
SEE TYPICAL TYPE B UNIT NO. 32

LARGE SCALE PLAN
SEE TYPICAL TYPE S UNIT NO. 32



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3904

Building Type: 57-VII

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 3-4 pm

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as 57-III

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

Same as 57-TII

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

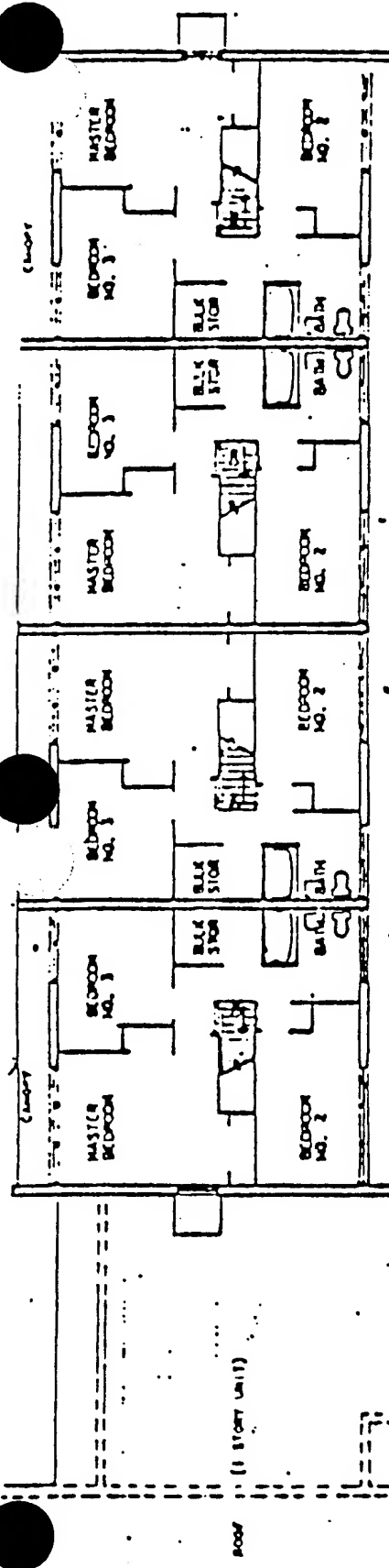
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit Sk | 22/105 | 118 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



Type S7-VII
S7-VIII

3904A

FLOOR PLAN
SCALE 1/8" = 1'-0"

SEE TYPICAL TYPE 8 UNIT NO. (10)

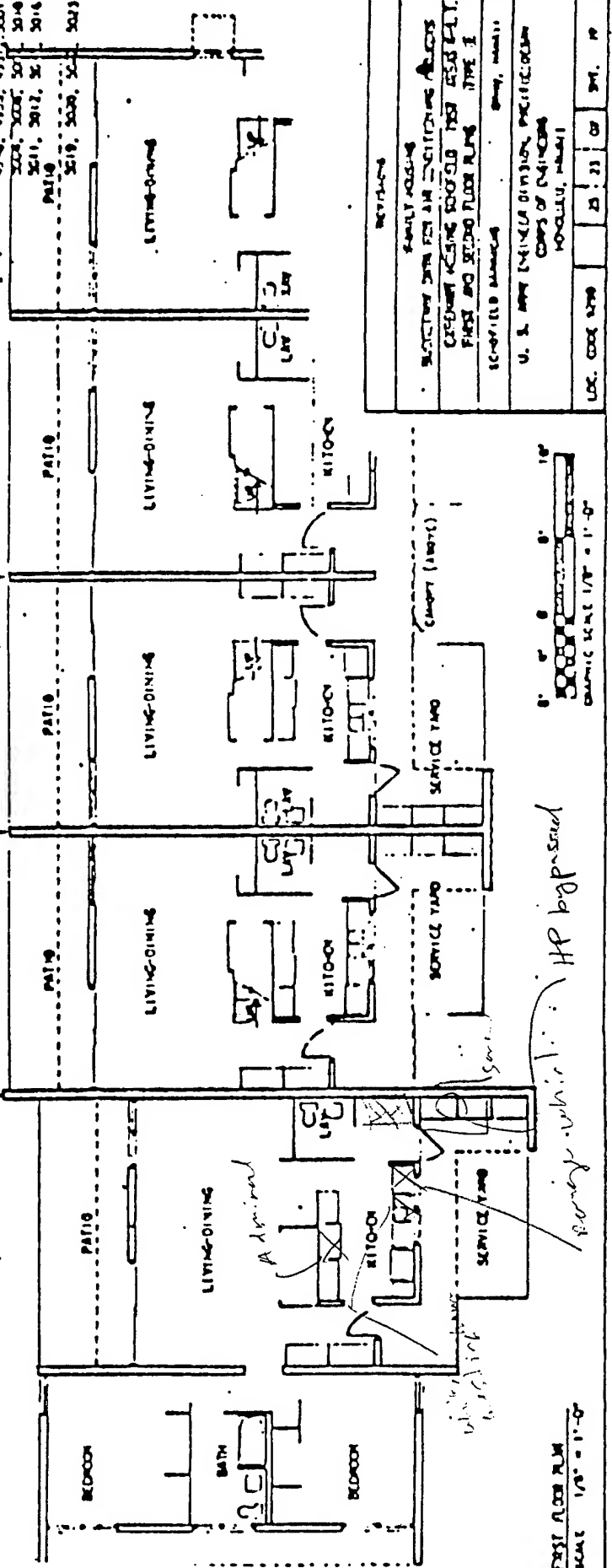
SEE SITE PLAN 3903 (A) (B) (C) (D) (E) FOR LOCATION

BUILDING NUMBERS

AREA 8-1 3903, 3904, 3905, 3913, 3914, 3916

AREA 1 3901, 3902, 3903, 3904, 3905, 3913, 3914, 3916

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
UNIT NO. (10)



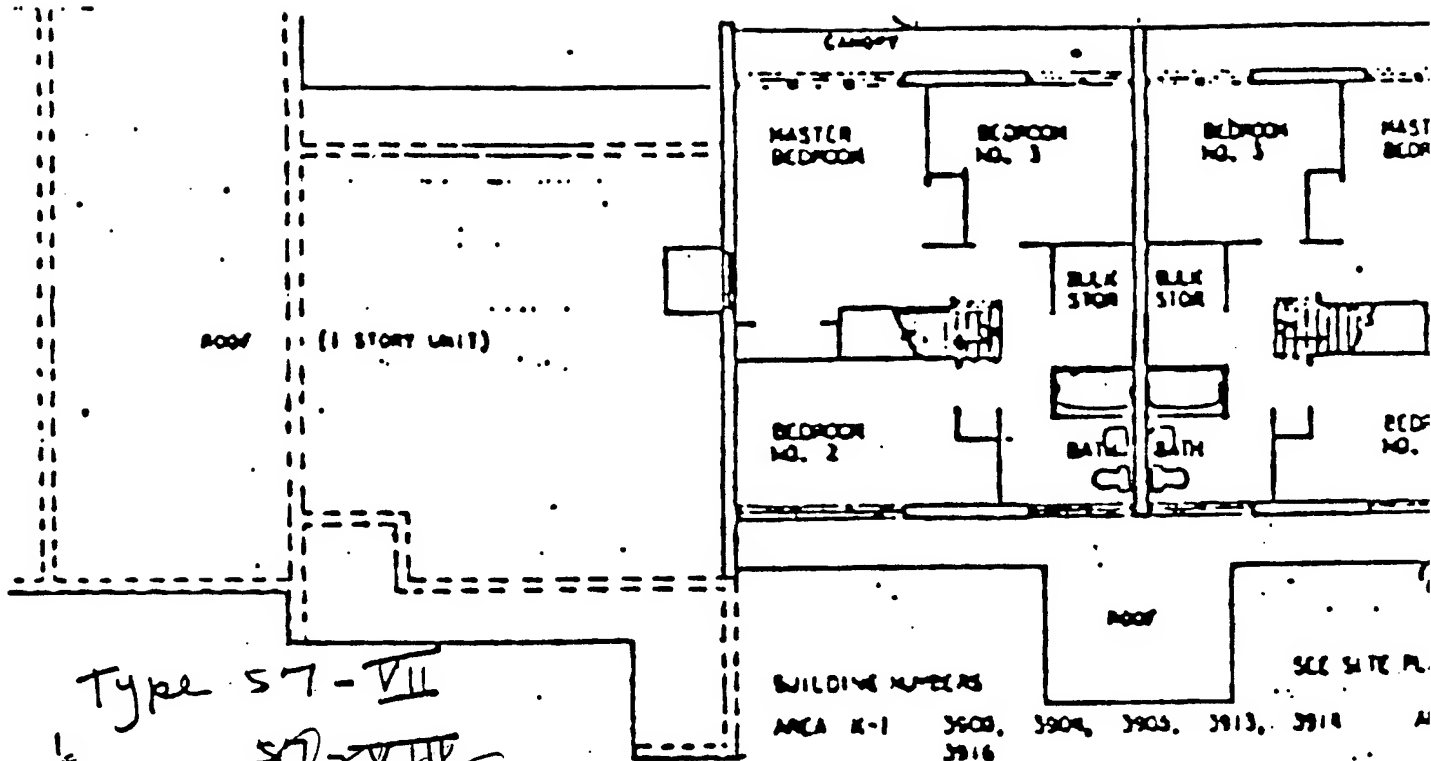
FLOOR PLAN
SCALE 1/8" = 1'-0"

HP by-passed
every vehicle

GRAPHIC SCALE 1/8" = 1'-0"

| | | | |
|--|------|----|-------|
| REVISIONS | DATE | BY | NO. |
| 1. SELECTED DATA FOR AIR CONDITIONING ALLOYS | | | |
| 2. CREDITED ALLOYS TO THE FIRST FLOOR PLANS | | | |
| 3. FIRST AND SECOND FLOOR PLANS TYPE 1 | | | |
| 4. SCHEDULE MATERIALS | | | |
| U. S. ARMY ENGINEERING DISTRICT | | | |
| CORPS OF ENGINEERS | | | |
| INDIANAPOLIS, INDIANA | | | |
| LOC. CODE 3904 | 25 | 23 | OF 24 |

MAY 1973



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

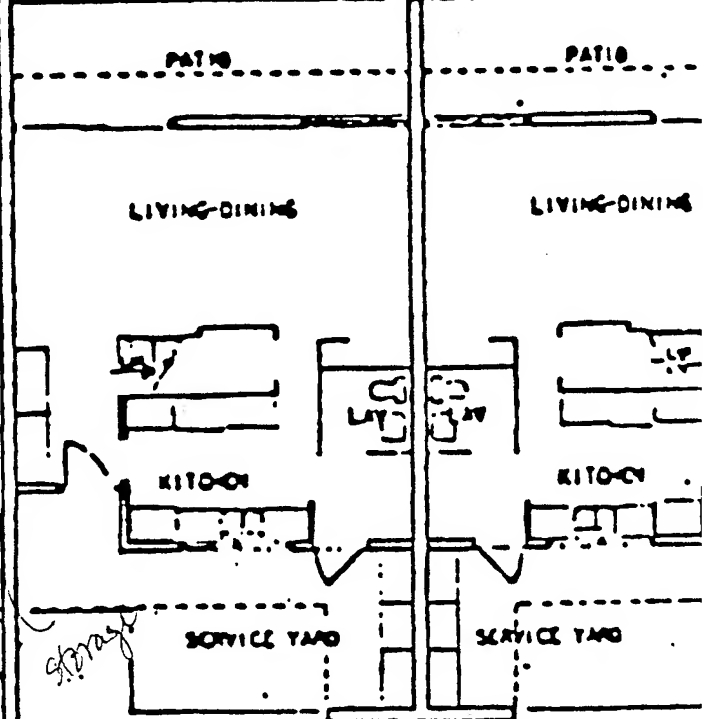
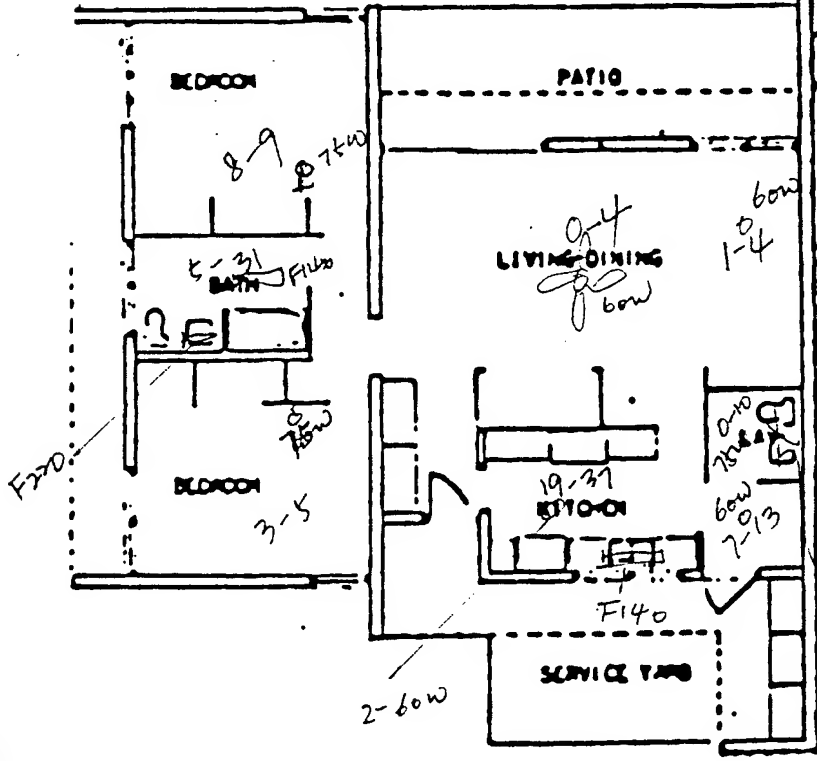
3900A 3913A
3904A 3914E
3905E 3916A

BUILDING NUMBERS

| AREA | 3900 | 3901 | 3902 | 3903 | 3904 |
|----------|------|------|------|------|------|
| AREA K-1 | 3900 | 3901 | 3902 | 3903 | 3904 |
| AREA T | 3905 | 3906 | 3907 | 3908 | 3909 |

LARGE SCALE PLAN
SEE TYPICAL TYPE 4 UNIT NO. 43

LARGE SCALE PLAN
SEE TYPICAL TYPE 5 UNIT NO. 43



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3913

Building Type: 57-VII

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as
57-III

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-11

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

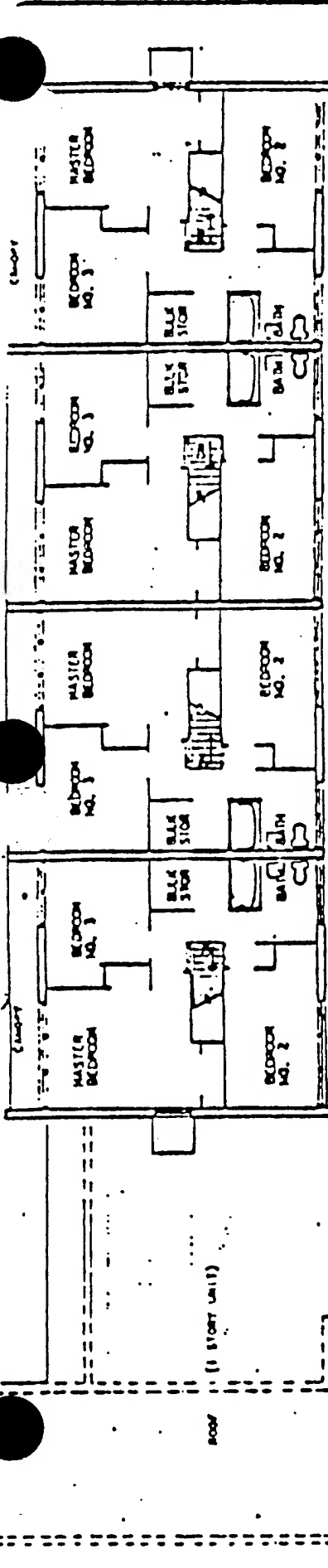
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Shur | 22/105 | 124 | |
| | | | |
| | | | |
| | | | |
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| | | | |



Type S7-VII
S7-VIII

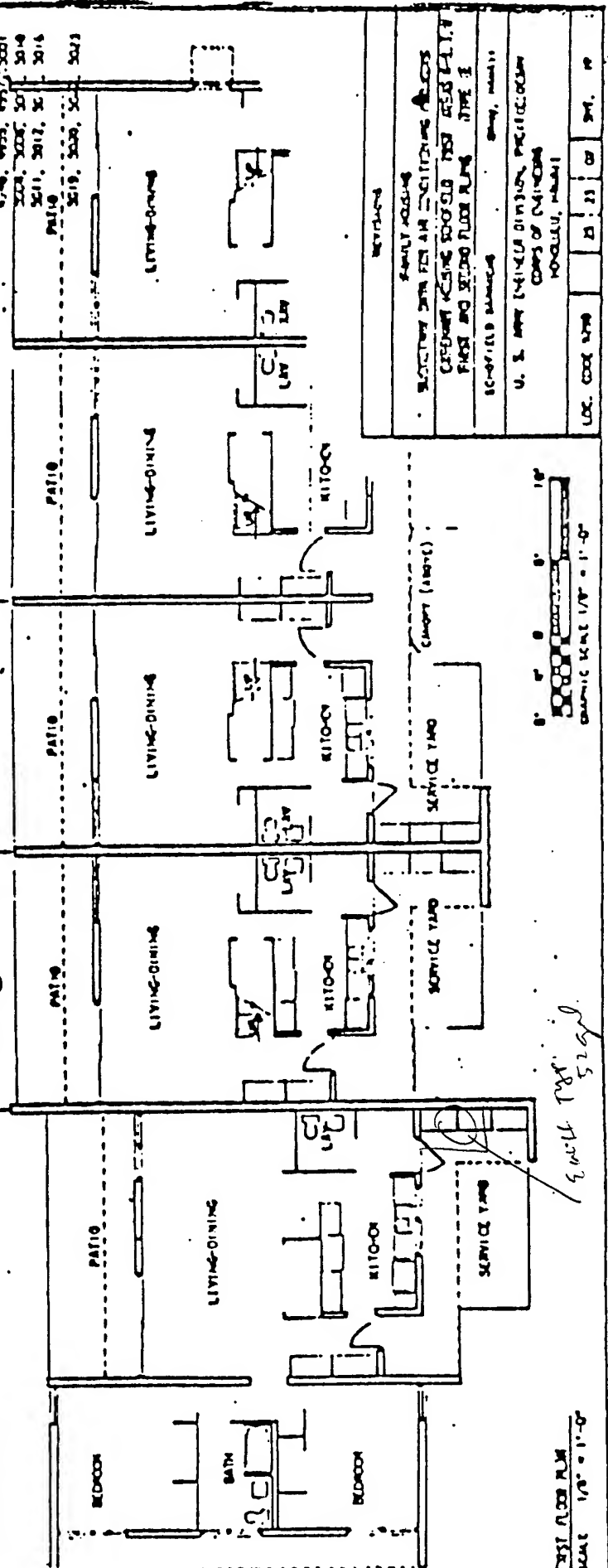
3A13A

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
SEE TYPICAL TYPE S UNIT 100-10

SEE SITE PLAN SHEETS 37, 38, 39 FOR LOCATION

BUILDING NUMBERS
AREA A-1 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 4028, 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045, 4046, 4047, 4048, 4049, 4050, 4051, 4052, 4053, 4054, 4055, 4056, 4057, 4058, 4059, 4060, 4061, 4062, 4063, 4064, 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4563, 4564, 4565, 4566, 4567, 4568, 4569, 4570, 4571, 4572, 4573, 4574, 4575, 4576, 4577, 4578, 4579, 4580, 4581, 4582, 4583, 4584, 4585, 4586, 4587, 4588, 4589, 4590, 4591, 4592, 4593, 4594, 4595, 4596, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 4604, 4605, 4606, 4607, 4608, 4609, 4610, 4611, 4612, 4613, 4614, 4615, 4616, 4617, 4618, 4619, 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4636, 4637, 4638, 4639, 4640, 4641, 4642, 4643, 4644, 4645, 4646, 4647, 4648, 4649, 4650, 4651, 4652, 4653, 4654, 4655, 4656, 4657, 4658, 4659, 4660, 4661, 4662, 4663, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4672, 4673, 4674, 4675, 4676, 4677, 4678, 4679, 4680, 4681, 4682, 4683, 4684, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4694, 4695, 4696, 4697, 4698, 4699, 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710, 4711, 4712, 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4720, 4721, 4722, 4723, 4724, 4725, 4726, 4727, 4728, 4729, 4730, 4731, 4732, 4733, 4734, 4735, 4736, 4737, 4738, 4739, 4740, 4741, 4742, 4743, 4744, 4745, 4746, 4747, 4748, 4749, 4750, 4751, 4752, 4753, 4754, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765, 4766, 4767, 4768, 4769, 4770, 4771, 4772, 4773, 4774, 4775, 4776, 4777, 4778, 4779, 4780, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 4800, 4801, 4802, 4803, 4804, 4805, 4806, 4807, 4808, 4809, 4810, 4811, 4812, 4813, 4814, 4815, 4816, 4817, 4818, 4819, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4830, 4831, 4832, 4833, 4834, 4835, 4836, 4837, 4838, 4839, 4840, 4841, 4842, 4843, 4844, 4845, 4846, 4847, 4848, 4849, 4850, 4851, 4852, 4853, 4854, 4855, 4856, 4857, 4858, 4859, 4860, 4861, 4862, 4863, 4864, 4865, 4866, 4867, 4868, 4869, 4870, 4871, 4872, 4873, 4874, 4875, 4876, 4877, 4878, 4879, 4880, 4881, 4882, 4883, 4884, 4885, 4886, 4887, 4888, 4889, 4890, 4891, 4892, 4893, 4894, 4895, 4896, 4897, 4898, 4899, 4900, 4901, 4902, 4903, 4904, 4905, 4906, 4907, 4908, 4909, 4910, 4911, 4912, 4913, 4914, 4915, 4916, 4917, 4918, 4919, 4920, 4921, 4922, 4923, 4924, 4925, 4926, 4927, 4928, 4929, 4930, 4931, 4932, 4933, 4934, 4935, 4936, 4937, 4938, 4939, 4940, 4941, 4942, 4943, 4944, 4945, 4946, 4947, 4948, 4949, 4950, 4951, 4952, 4953, 4954, 4955, 4956, 4957, 4958, 4959, 4960, 4961, 4962, 4963, 4964, 4965, 4966, 4967, 4968, 4969, 4970, 4971, 4972, 4973, 4974, 4975, 4976, 4977, 4978, 4979, 4980, 4981, 4982, 4983, 4984, 4985, 4986, 4987, 4988, 4989, 4990, 4991, 4992, 4993, 4994, 4995, 4996, 4997, 4998, 4999, 5000



| | | | | | |
|-----------|------|------|------|------|------|
| LOC. CODE | TYPE | ST. | OF | ST. | IN |
| 5011 | 5012 | 5013 | 5014 | 5015 | 5016 |

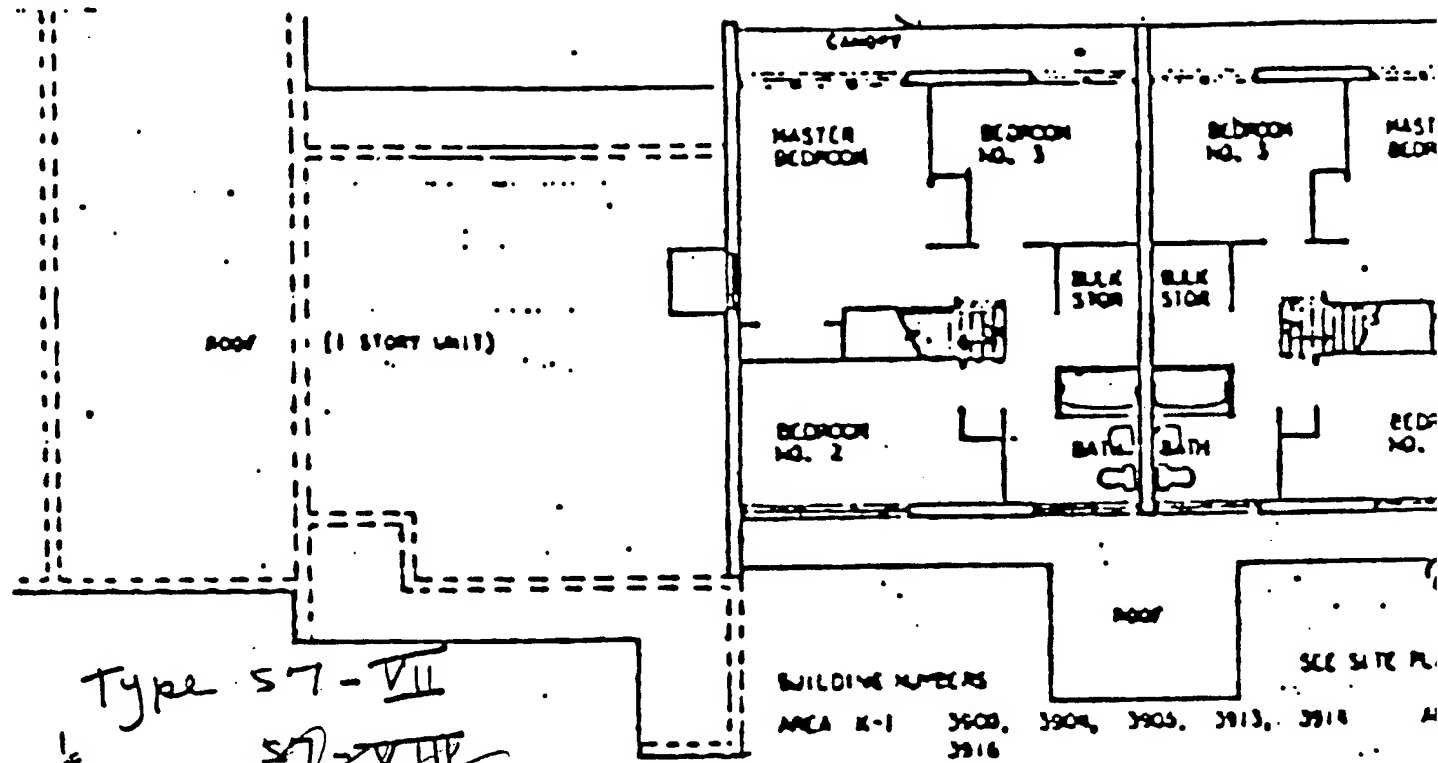
GRAPHIC SCALE 1/8" = 1'-0"

6-11-74 TYP 5290

2ND FLOOR PLAN
SCALE 1/8" = 1'-0"

MAY 1973

69



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

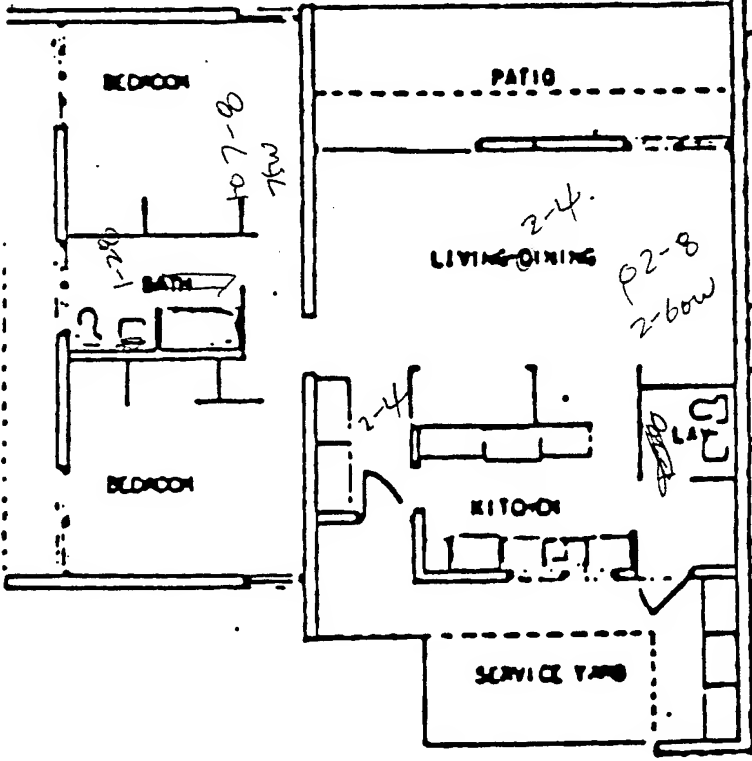
3900A
3904A
3905E
3913A
3914E
3916A

BUILDING NUMBERS

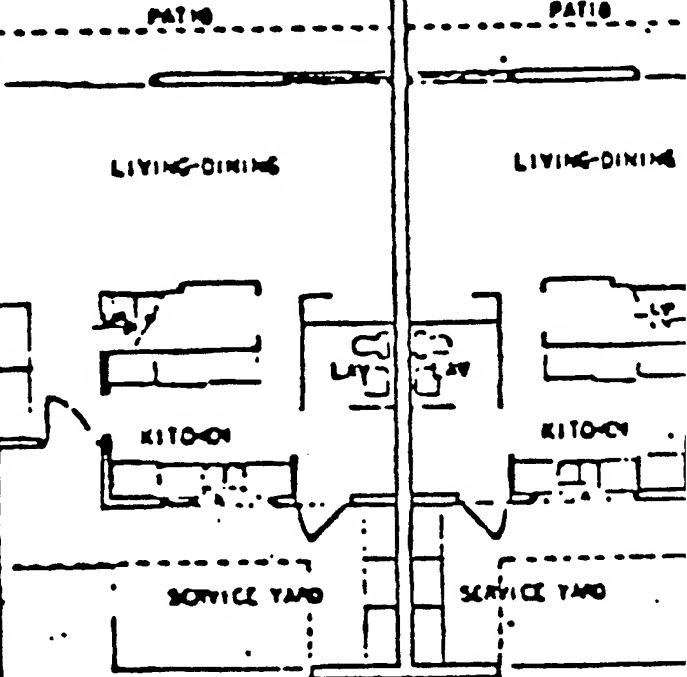
| AREA K-1 | 3900 | 3904 | 3905 | 3913 | 3914 | 3916 |
|----------|--------|--------|--------|--------|--------|--------|
| AREA 1 | NO. 1 | NO. 2 | NO. 3 | NO. 4 | NO. 5 | NO. 6 |
| | NO. 7 | NO. 8 | NO. 9 | NO. 10 | NO. 11 | NO. 12 |
| | NO. 13 | NO. 14 | NO. 15 | NO. 16 | NO. 17 | NO. 18 |
| | NO. 19 | NO. 20 | NO. 21 | NO. 22 | NO. 23 | NO. 24 |
| | NO. 25 | NO. 26 | NO. 27 | NO. 28 | NO. 29 | NO. 30 |

LARGE SCALE PLAN
SEE TYPICAL TYPE 8 UNIT NO. 83

LARGE SCALE PLAN
SEE TYPICAL TYPE 5 UNIT NO. 83



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3914

Building Type: 57 HI

Apartment: 2

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8 hrs.

No. of Occupants: 4

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

Same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

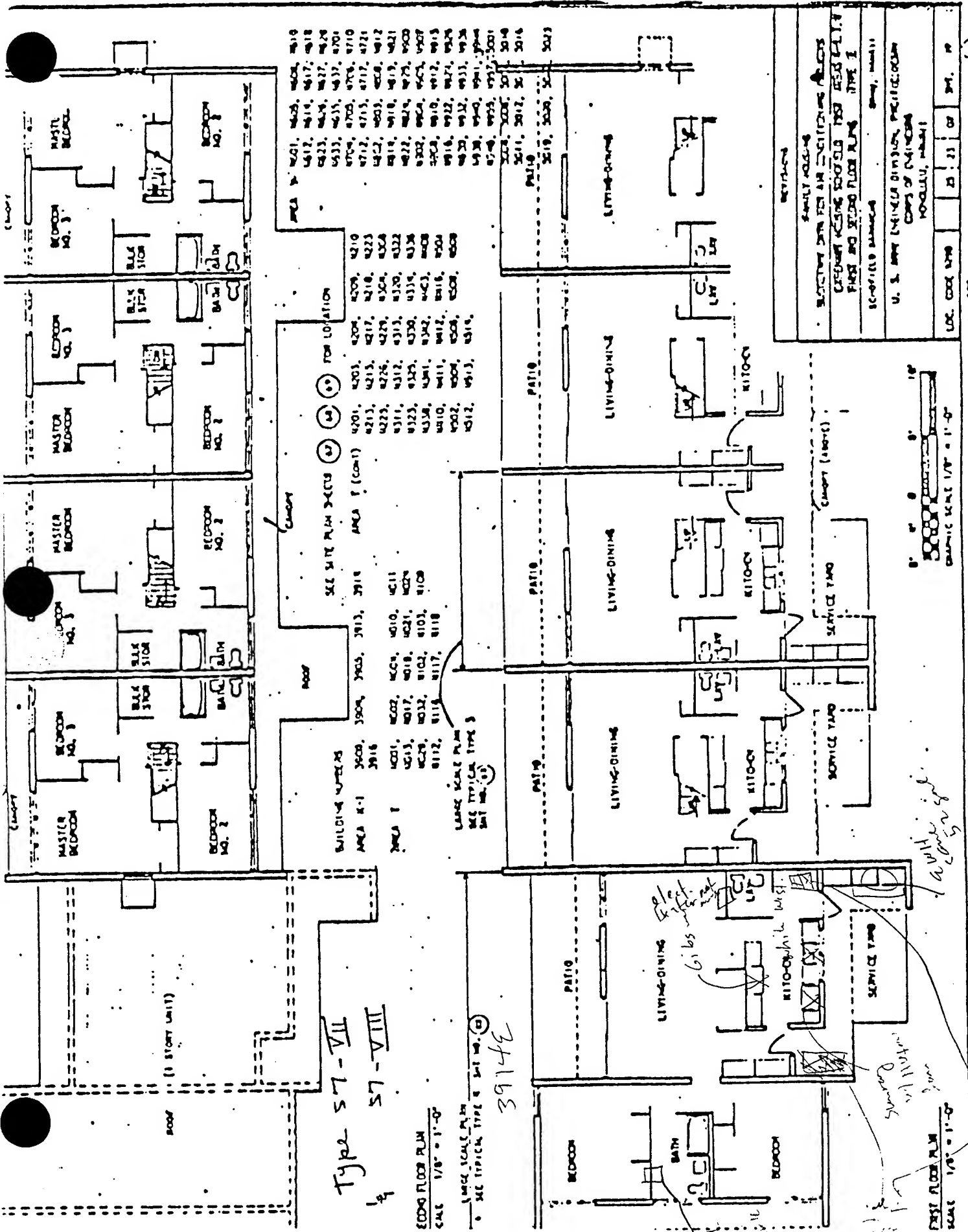
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit sk | 22/105 | 118 | |
| Shwr | 42/105 | 110 | |
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Type S7-VII
S7-VIII

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SHEET NO. 10

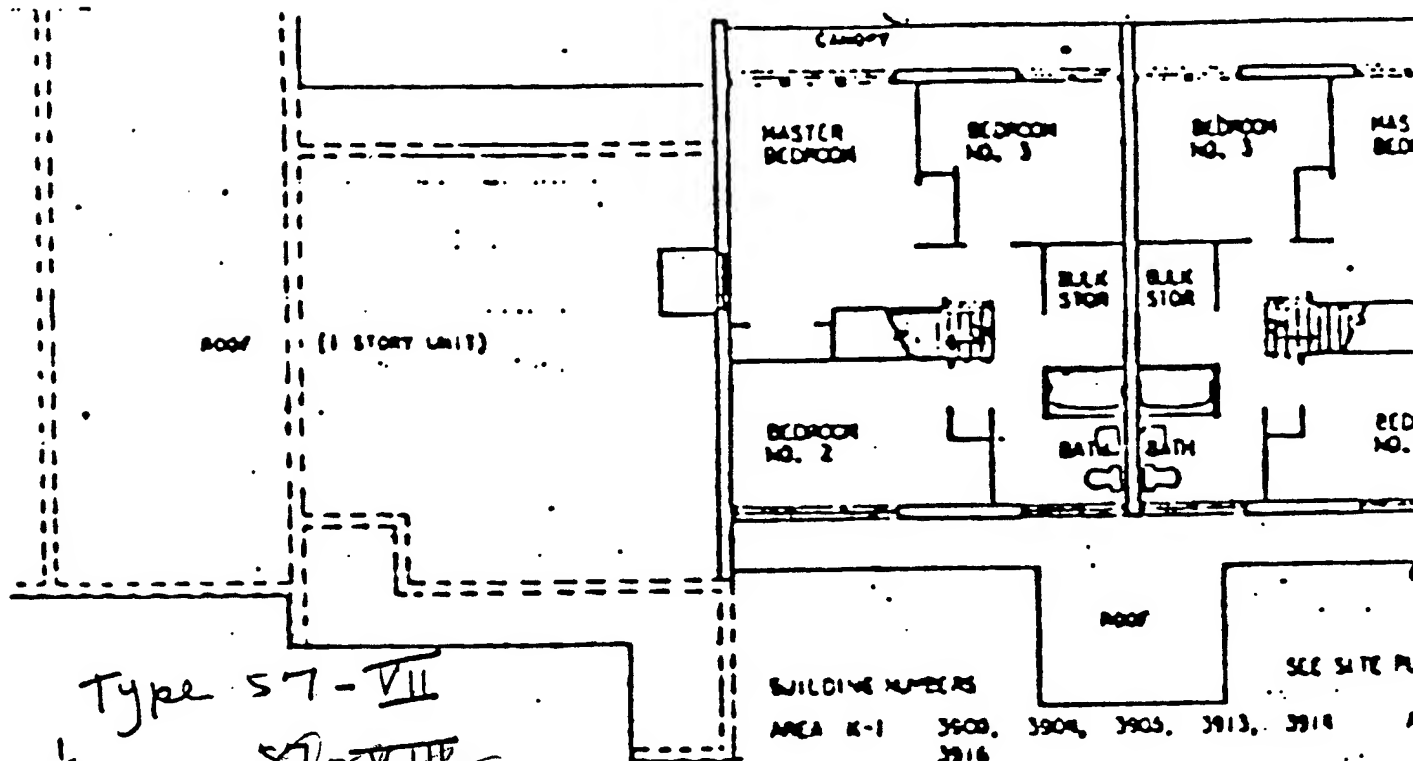
3914E

FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

| | |
|---|----------------|
| SELECTED DATA FOR AIR CONDITIONING ALLOYS
OFFERING ROOMS FOR AIR CONDITIONING
FIRST AND SECOND FLOOR PLANS TYPE I | |
| RECOMMENDED BUILDING
U. S. ARMY ENGINEERING DIVISION, PRELIMINARY
CONCEPT OF BUILDING
MODULAR, INDUSTRIAL | |
| LOC. CODE 1248 | 25 23 07 34 19 |

NOV 1973

69



Type 57-VII

SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
SEE TYPICAL TYPE 4 SMT NO. 43

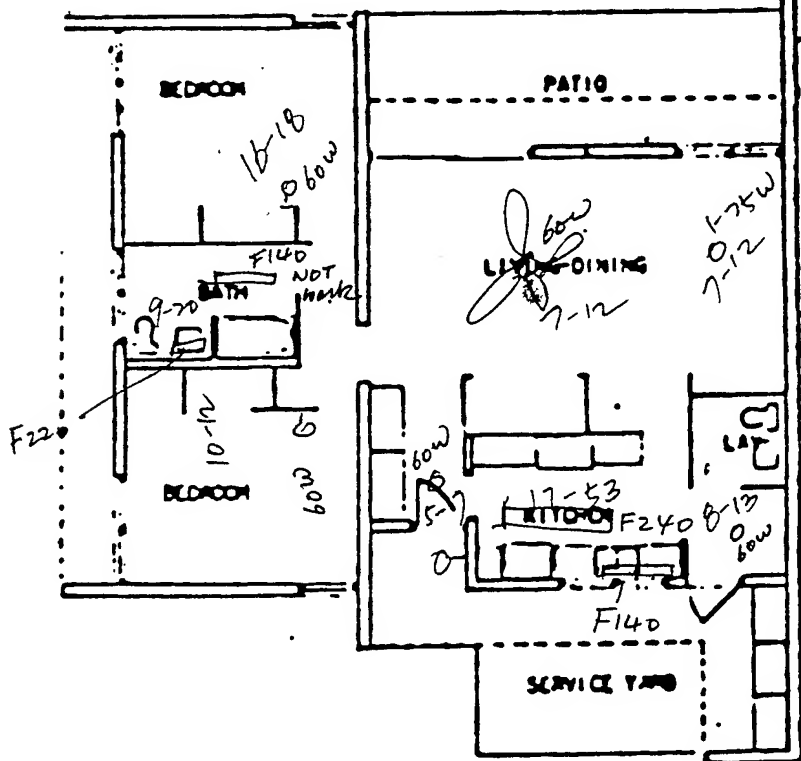
3900A 3913A
3904A 3914E
3905E 3916A

BUILDING NUMBERS

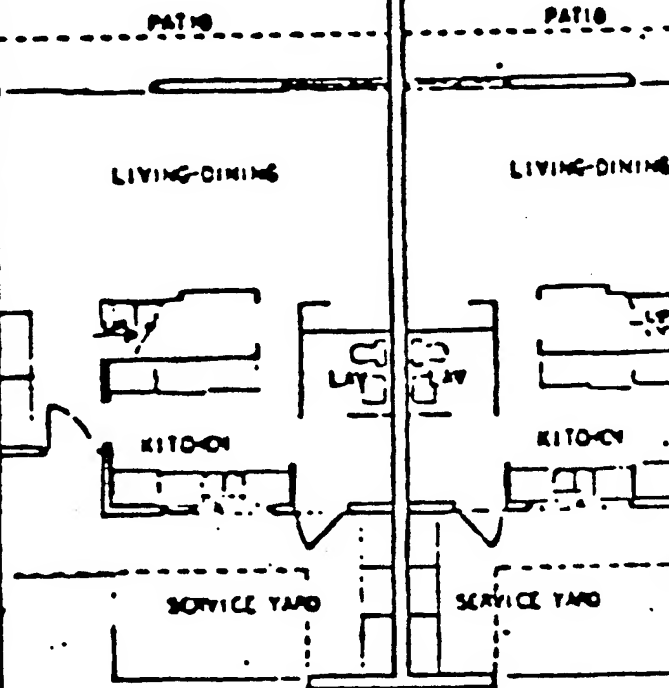
AREA K-1 3900, 3904, 3905, 3913, 3914, 3916

AREA T MC01, MC02, MC04, MC10, MC11, MC13, MC17, MC18, MC21, MC24, MC29, MC32, MC02, MC03, MC08, MC12, MC16, MC17, MC18

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SMT NO. 43



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



UNIT TYPE 57-VIII

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3900

Building Type: 57-VIII

Apartment: C

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 2 p.m. on

No. of Occupants: 4

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: not used

Remarks: _____

2.0 ARCHITECTURAL

Construction

same as 57-111

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

Same as 57-111

a. Is System Supported from (check one):

Several Small Systems per Building

Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

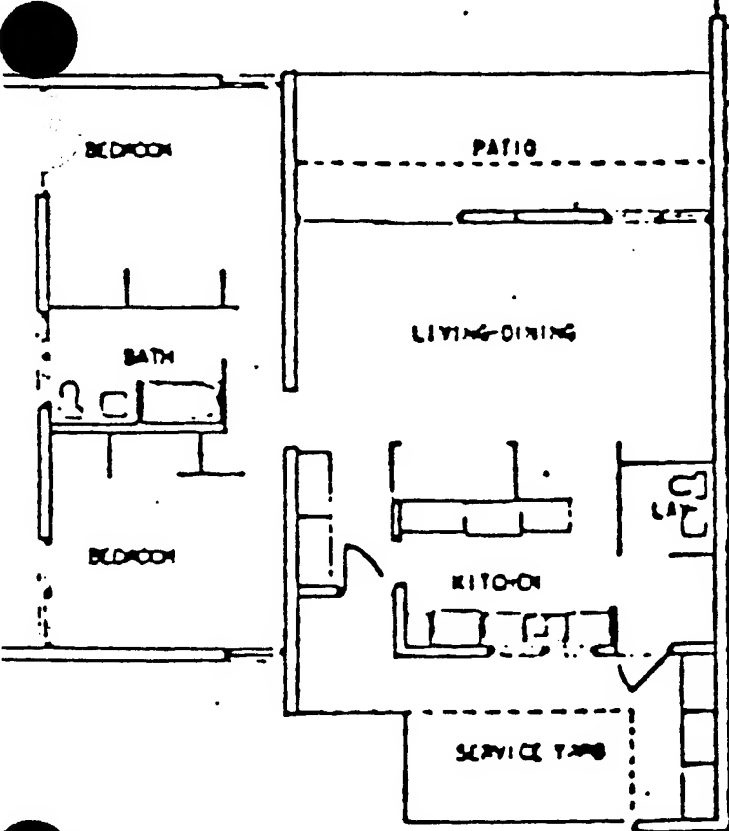
| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------------|
| Kit SK | 12/105 | 109 | Doing Laundry |
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3900 A B C D E
 3904 A B C D E
 3905 A B C D E
 3913 A B C D E
 3914 E
 3916 A

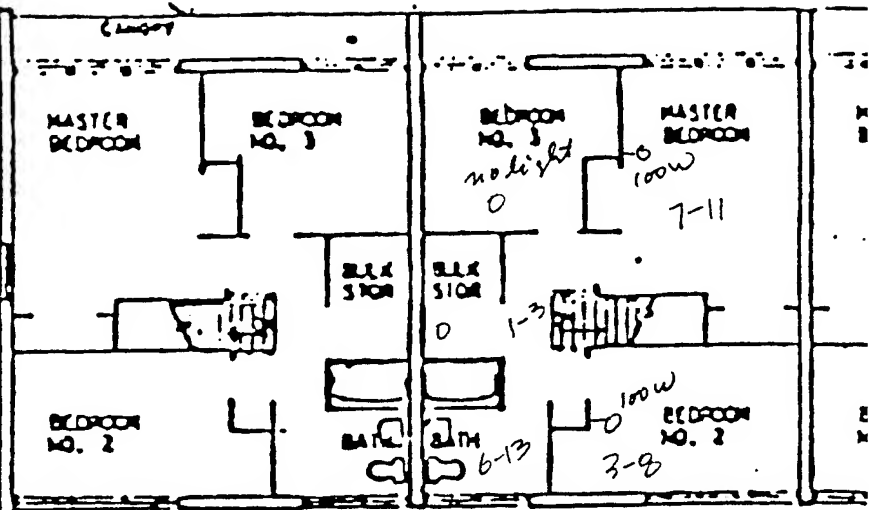
Type S7-VII
 S7-VIII

COND FLOOR PLAN
 1/8" = 1'-0"

LARGE SCALE PLAN
 SEE TYPICAL TYPE 4 SHT NO. 12



COND FLOOR PLAN
 1/8" = 1'-0"

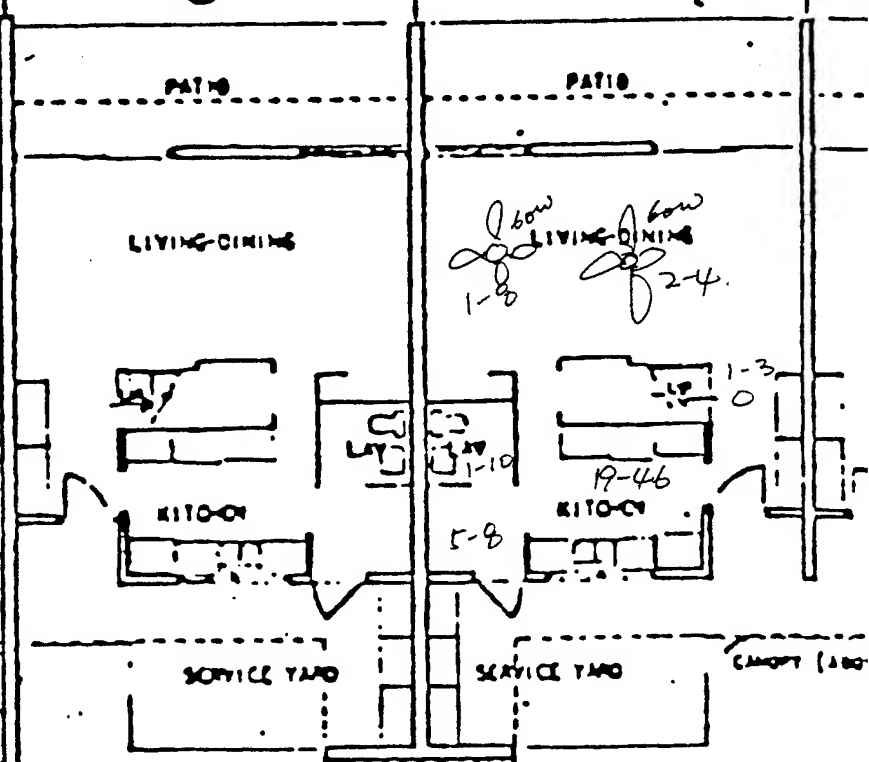


BUILDING NUMBERS

AREA K-1 3900, 3904, 3905, 3913, 3916 AREA T (CONT)

AREA T
 NO. 1, NO. 2, NO. 3, NO. 4, NO. 5
 NO. 6, NO. 7, NO. 8, NO. 9, NO. 10
 NO. 11, NO. 12, NO. 13, NO. 14, NO. 15

LARGE SCALE PLAN
 SEE TYPICAL TYPE 3
 SHT NO. 13



GRAPHIC SCALE 1/8" = 1'-0"

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3900

Building Type: 57-VIII

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 5

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

1) Condition of circulator
2) Circulator capacity
3) Is aquastat provided?
4) Aquastat temperature setting
5) Mfg/Model
6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

a. Location
b. Areas Served
c. Manufacturer and Model
d. Energy (Oil, Gas, Electric, Coal, Etc.)
e. Type Heaters & Quantities:
1) Storage
2) Instantaneous
3) Semi-Instantaneous
f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

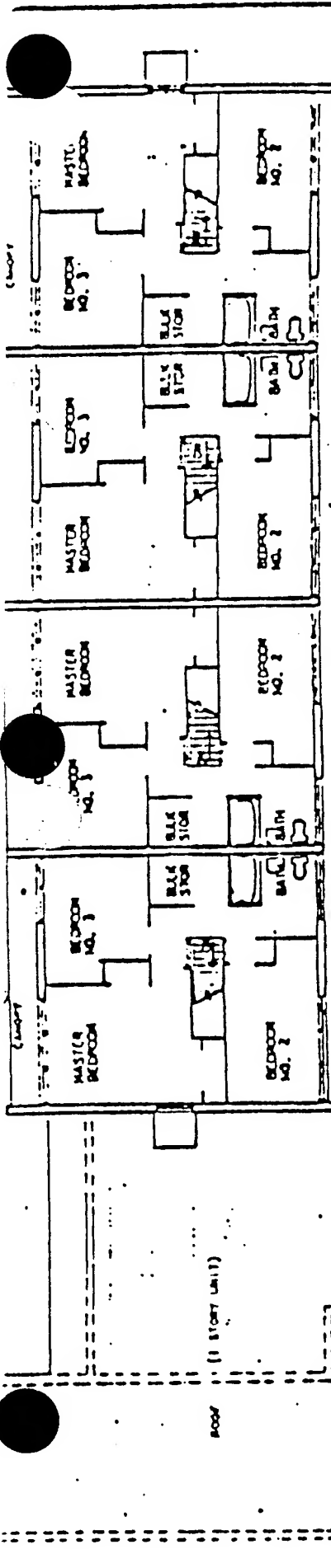
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

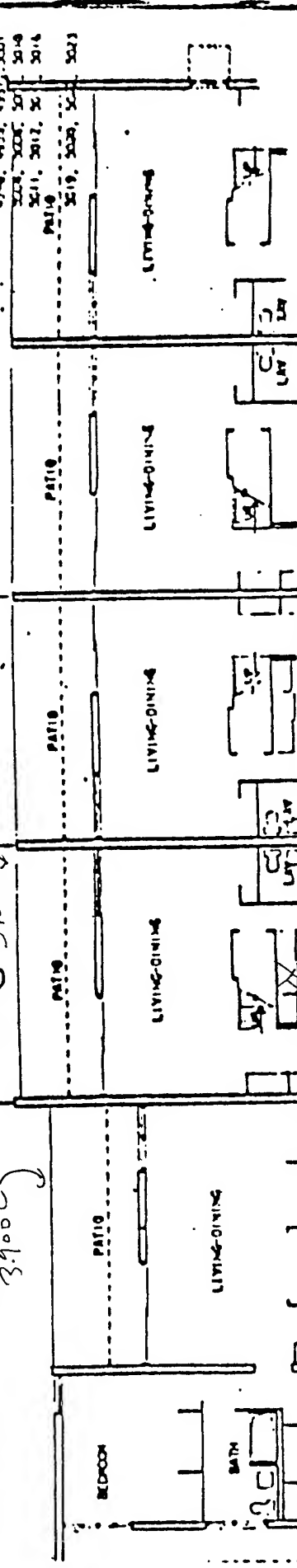
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|----------|-------------|---------|
| Kit Sk | 1.52/105 | 122 | |
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SEE SITE PLAN SHEET 27 FOR LOCATION

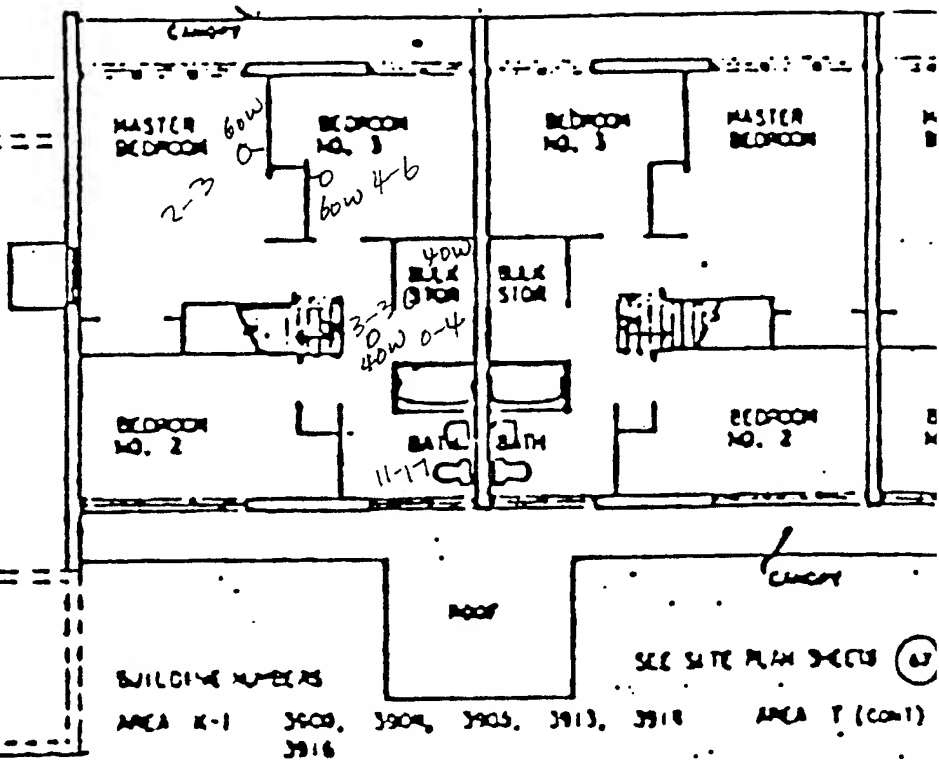
| BUILDING NUMBER | AREA 1 | AREA 2 | AREA 3 | AREA 4 | AREA 5 | AREA 6 | AREA 7 | AREA 8 | AREA 9 | AREA 10 | AREA 11 | AREA 12 | AREA 13 | AREA 14 | AREA 15 | AREA 16 | AREA 17 | AREA 18 | AREA 19 | AREA 20 | AREA 21 | AREA 22 | AREA 23 | AREA 24 | AREA 25 | AREA 26 | AREA 27 | AREA 28 | AREA 29 | AREA 30 | AREA 31 | AREA 32 | AREA 33 | AREA 34 | AREA 35 | AREA 36 | AREA 37 | AREA 38 | AREA 39 | AREA 40 | AREA 41 | AREA 42 | AREA 43 | AREA 44 | AREA 45 | AREA 46 | AREA 47 | AREA 48 | AREA 49 | AREA 50 | AREA 51 | AREA 52 | AREA 53 | AREA 54 | AREA 55 | AREA 56 | AREA 57 | AREA 58 | AREA 59 | AREA 60 | AREA 61 | AREA 62 | AREA 63 | AREA 64 | AREA 65 | AREA 66 | AREA 67 | AREA 68 | AREA 69 | AREA 70 | AREA 71 | AREA 72 | AREA 73 | AREA 74 | AREA 75 | AREA 76 | AREA 77 | AREA 78 | AREA 79 | AREA 80 | AREA 81 | AREA 82 | AREA 83 | AREA 84 | AREA 85 | AREA 86 | AREA 87 | AREA 88 | AREA 89 | AREA 90 | AREA 91 | AREA 92 | AREA 93 | AREA 94 | AREA 95 | AREA 96 | AREA 97 | AREA 98 | AREA 99 | AREA 100 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 3900 | 3901 | 3902 | 3903 | 3904 | 3905 | 3906 | 3907 | 3908 | 3909 | 3910 | 3911 | 3912 | 3913 | 3914 | 3915 | 3916 | 3917 | 3918 | 3919 | 3920 | 3921 | 3922 | 3923 | 3924 | 3925 | 3926 | 3927 | 3928 | 3929 | 3930 | 3931 | 3932 | 3933 | 3934 | 3935 | 3936 | 3937 | 3938 | 3939 | 3940 | 3941 | 3942 | 3943 | 3944 | 3945 | 3946 | 3947 | 3948 | 3949 | 3950 | 3951 | 3952 | 3953 | 3954 | 3955 | 3956 | 3957 | 3958 | 3959 | 3960 | 3961 | 3962 | 3963 | 3964 | 3965 | 3966 | 3967 | 3968 | 3969 | 3970 | 3971 | 3972 | 3973 | 3974 | 3975 | 3976 | 3977 | 3978 | 3979 | 3980 | 3981 | 3982 | 3983 | 3984 | 3985 | 3986 | 3987 | 3988 | 3989 | 3990 | 3991 | 3992 | 3993 | 3994 | 3995 | 3996 | 3997 | 3998 | 3999 | 4000 |



SEE SITE PLAN SHEET 27 FOR LOCATION

| BUILDING NUMBER | AREA 1 | AREA 2 | AREA 3 | AREA 4 | AREA 5 | AREA 6 | AREA 7 | AREA 8 | AREA 9 | AREA 10 | AREA 11 | AREA 12 | AREA 13 | AREA 14 | AREA 15 | AREA 16 | AREA 17 | AREA 18 | AREA 19 | AREA 20 | AREA 21 | AREA 22 | AREA 23 | AREA 24 | AREA 25 | AREA 26 | AREA 27 | AREA 28 | AREA 29 | AREA 30 | AREA 31 | AREA 32 | AREA 33 | AREA 34 | AREA 35 | AREA 36 | AREA 37 | AREA 38 | AREA 39 | AREA 40 | AREA 41 | AREA 42 | AREA 43 | AREA 44 | AREA 45 | AREA 46 | AREA 47 | AREA 48 | AREA 49 | AREA 50 | AREA 51 | AREA 52 | AREA 53 | AREA 54 | AREA 55 | AREA 56 | AREA 57 | AREA 58 | AREA 59 | AREA 60 | AREA 61 | AREA 62 | AREA 63 | AREA 64 | AREA 65 | AREA 66 | AREA 67 | AREA 68 | AREA 69 | AREA 70 | AREA 71 | AREA 72 | AREA 73 | AREA 74 | AREA 75 | AREA 76 | AREA 77 | AREA 78 | AREA 79 | AREA 80 | AREA 81 | AREA 82 | AREA 83 | AREA 84 | AREA 85 | AREA 86 | AREA 87 | AREA 88 | AREA 89 | AREA 90 | AREA 91 | AREA 92 | AREA 93 | AREA 94 | AREA 95 | AREA 96 | AREA 97 | AREA 98 | AREA 99 | AREA 100 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 3900 | 3901 | 3902 | 3903 | 3904 | 3905 | 3906 | 3907 | 3908 | 3909 | 3910 | 3911 | 3912 | 3913 | 3914 | 3915 | 3916 | 3917 | 3918 | 3919 | 3920 | 3921 | 3922 | 3923 | 3924 | 3925 | 3926 | 3927 | 3928 | 3929 | 3930 | 3931 | 3932 | 3933 | 3934 | 3935 | 3936 | 3937 | 3938 | 3939 | 3940 | 3941 | 3942 | 3943 | 3944 | 3945 | 3946 | 3947 | 3948 | 3949 | 3950 | 3951 | 3952 | 3953 | 3954 | 3955 | 3956 | 3957 | 3958 | 3959 | 3960 | 3961 | 3962 | 3963 | 3964 | 3965 | 3966 | 3967 | 3968 | 3969 | 3970 | 3971 | 3972 | 3973 | 3974 | 3975 | 3976 | 3977 | 3978 | 3979 | 3980 | 3981 | 3982 | 3983 | 3984 | 3985 | 3986 | 3987 | 3988 | 3989 | 3990 | 3991 | 3992 | 3993 | 3994 | 3995 | 3996 | 3997 | 3998 | 3999 | 4000 |

3900 A B C D E
 3904 A B C D E
 3905 A B C D E
 3913 A B C D E
 3914 E
 3916 A



BUILDING NUMBERS

| AREA K-1 | 3900 | 3904 | 3905 | 3913 | 3914 | 3916 |
|----------|--------|--------|--------|--------|--------|--------|
| AREA T | NO. 1 | NO. 2 | NO. 4 | NO. 10 | NO. 11 | NO. 12 |
| | NO. 13 | NO. 17 | NO. 18 | NO. 21 | NO. 24 | NO. 28 |
| | NO. 29 | NO. 32 | NO. 35 | NO. 38 | NO. 41 | NO. 44 |

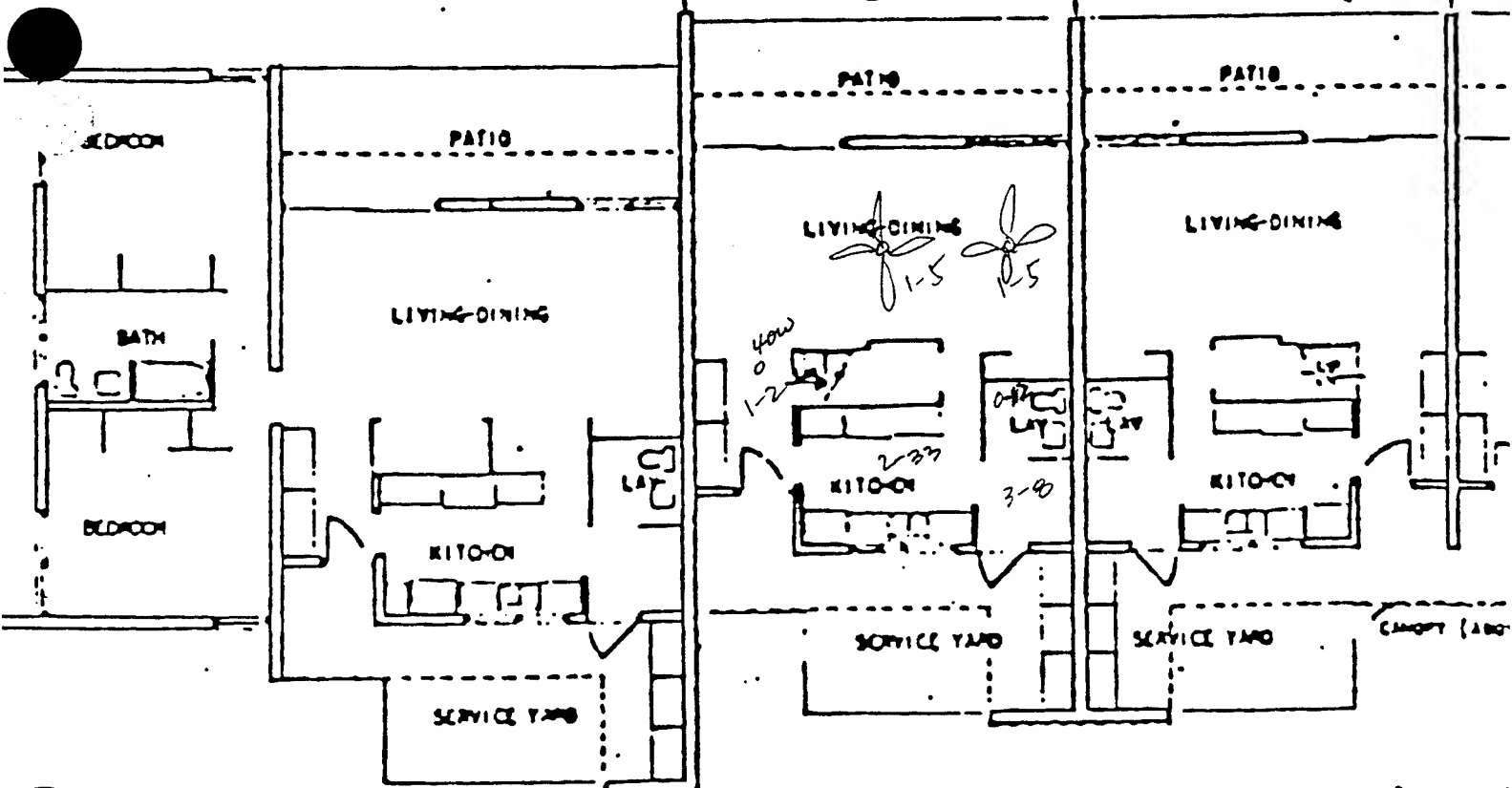
SEE SITE PLAN SHEET 67

Type S7-VII
 S7-VIII

COND FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
SEE TYPICAL TYPE K SHT NO. 67

LARGE SCALE PLAN
SEE TYPICAL TYPE S
SHT NO. 67



COND FLOOR PLAN
SCALE 1/8" = 1'-0"

GRAPHIC SCALE 1/8" = 1'-0"

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3900
Building Type: 57-VIII
Apartment: E
No. Bedrooms: 3
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: _____
No. of Occupants: 4
Average No. of Showers/Day: 3
Average No. of Laundry Loads/Week: 10
Average No. of Times Dishwasher Used/Day: 1
Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as 57-III

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

same as 57-11

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

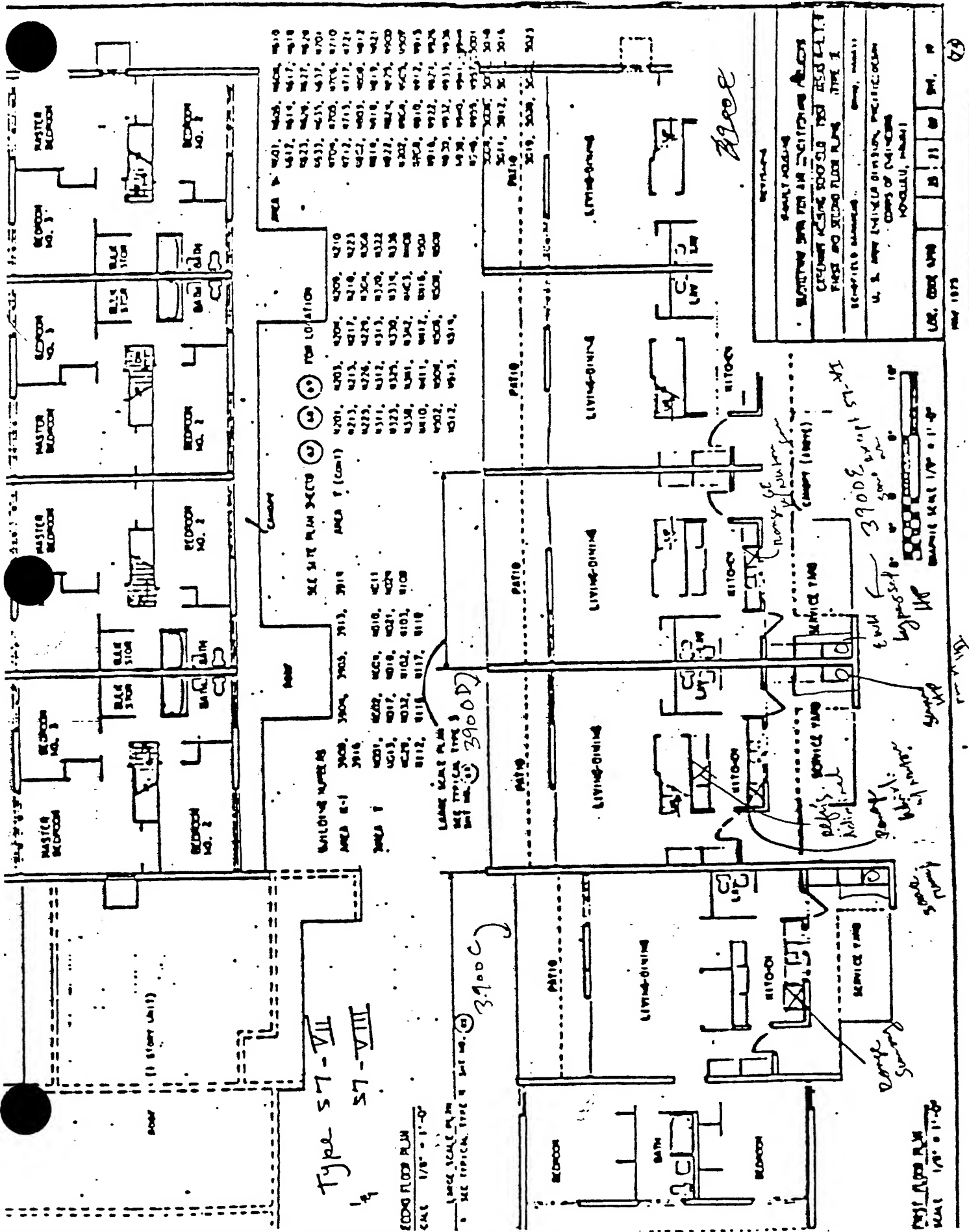
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

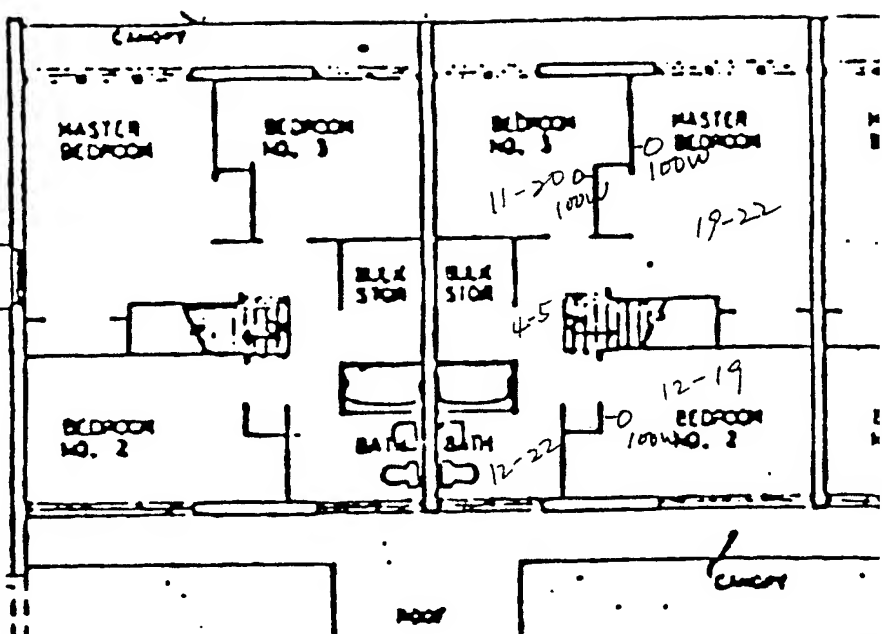
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|----------|-------------|---------|
| KIT SK | 1.52/105 | 120 | |
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3900 A B C D E
 3904 A B C D E
 3905 A B C D E
 3913 A B C D E
 3914 E
 3916 A



Type S7-VII
 S7-VIII

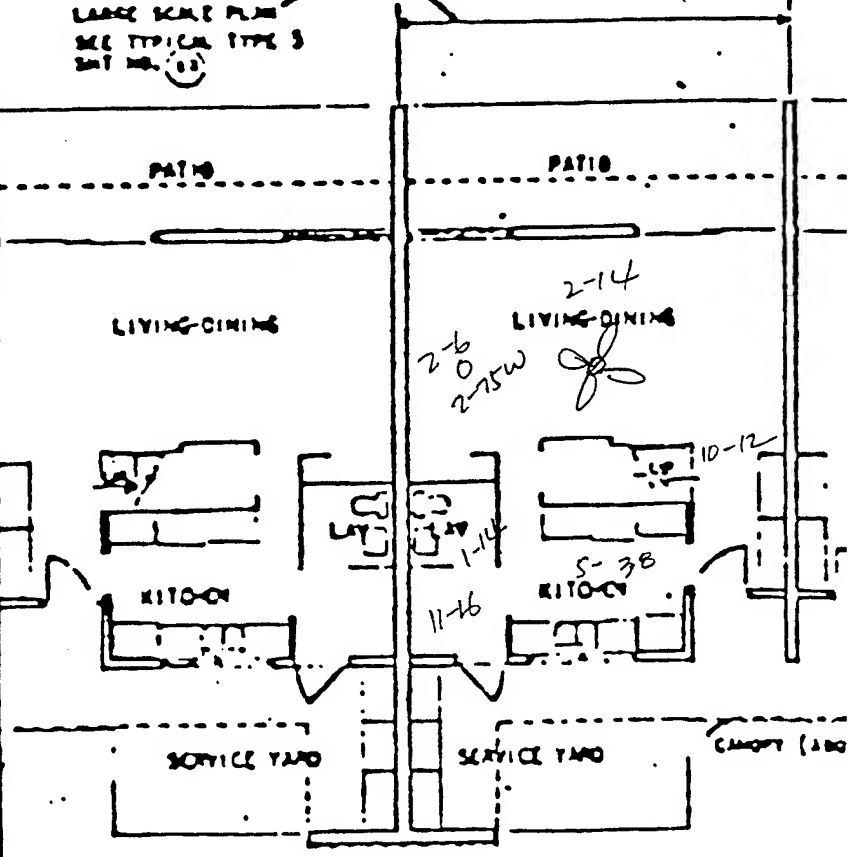
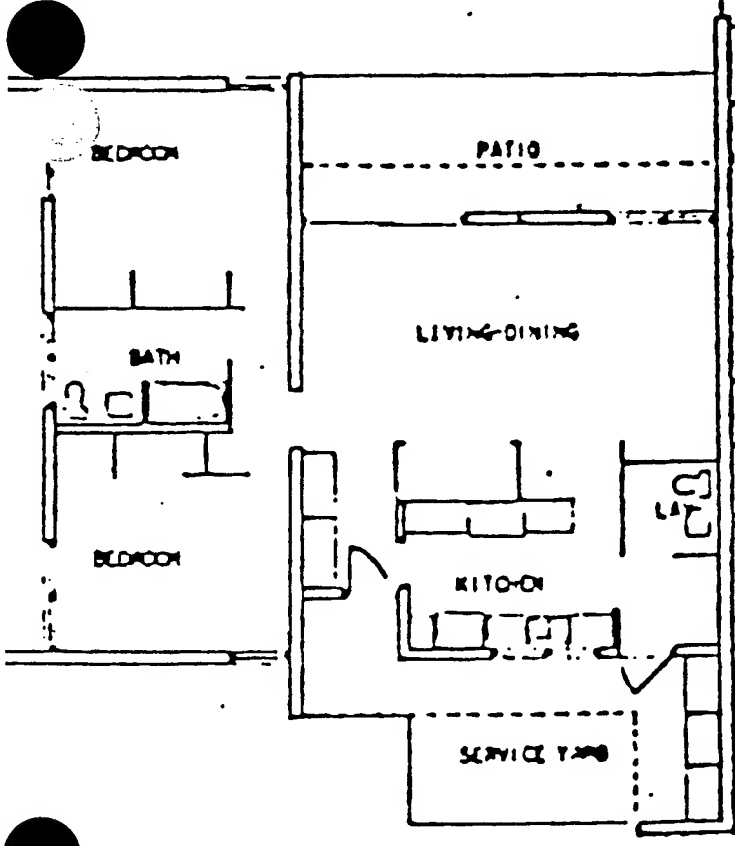
BUILDING NUMBERS

| AREA K-1 | 3900 | 3904 | 3905 | 3913 | 3914 | 3916 |
|----------|--------|--------|--------|--------|--------|------|
| AREA T | NO. 1 | NO. 2 | NO. 4 | NO. 10 | NO. 11 | |
| | NO. 13 | NO. 17 | NO. 18 | NO. 21 | NO. 24 | |
| | NO. 29 | NO. 32 | NO. 32 | NO. 33 | NO. 38 | |
| | NO. 12 | NO. 16 | NO. 17 | NO. 18 | | |

SEE SITE PLAN SECT. (C)

COND FLOOR PLAN
 SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
 SEE TYPICAL TYPE 4 SHT NO. (C)



COND FLOOR PLAN
 SCALE 1/8" = 1'-0"

GRAPHIC SCALE 1/8" = 1'-0"

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3904

Building Type: 57-VIII

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 5

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 2X weeks

Remarks: _____

2.0 ARCHITECTURAL

same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

same as 57-III

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

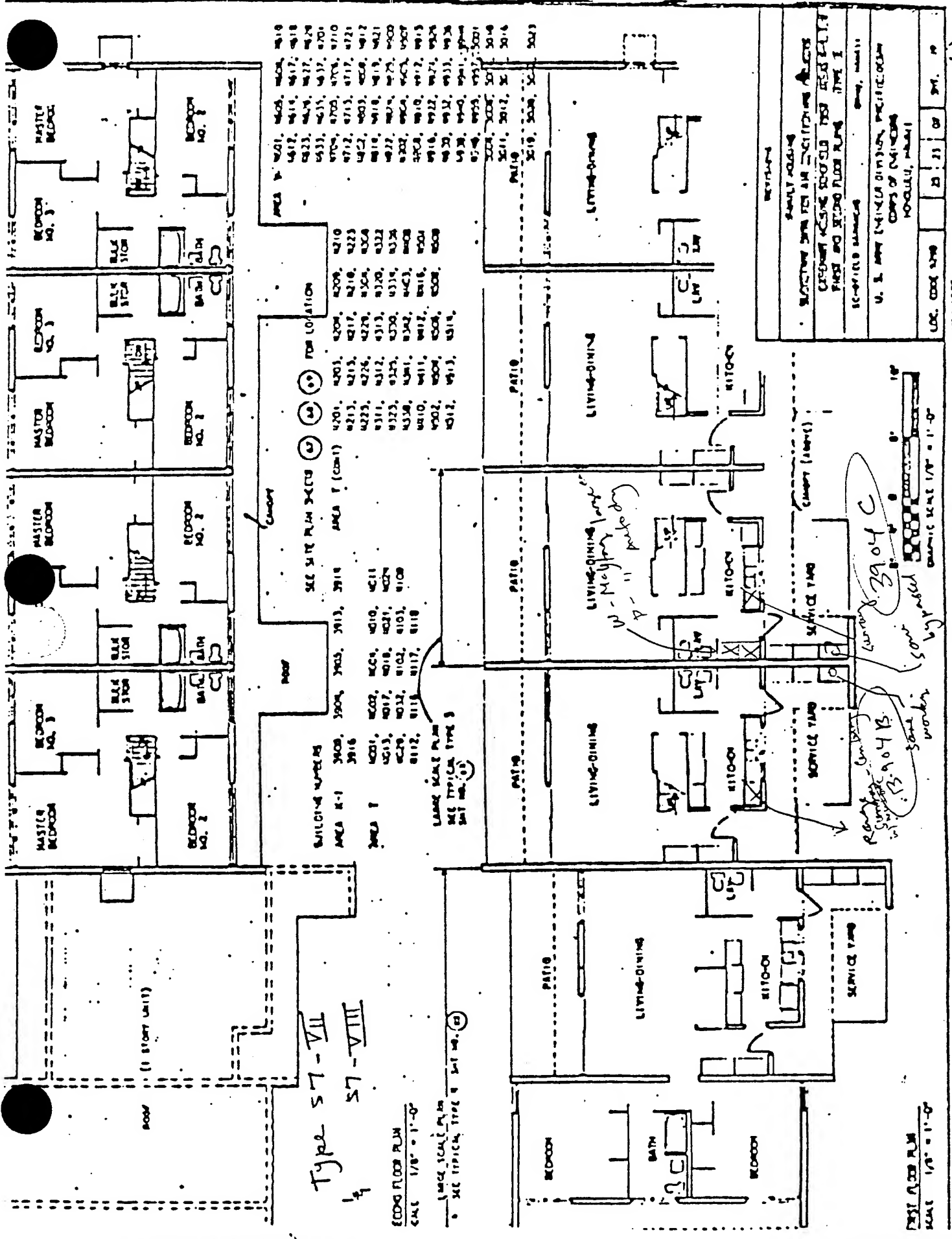
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit. SK | 28/10s | 124 | |
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Type S7-VII
S7-VIII

GOOD FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
SEE TYPICAL TYPE 4 SEE NO. 10

SEE TYPICAL TYPE 5 SEE TYPICAL TYPE 3

LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SEE NO. 10

SEE TYPICAL TYPE 3
SEE NO. 10

SEE TYPICAL TYPE 3
SEE NO. 10

SEE TYPICAL TYPE 3
SEE NO. 10

GOOD FLOOR PLAN
SCALE 1/8" = 1'-0"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

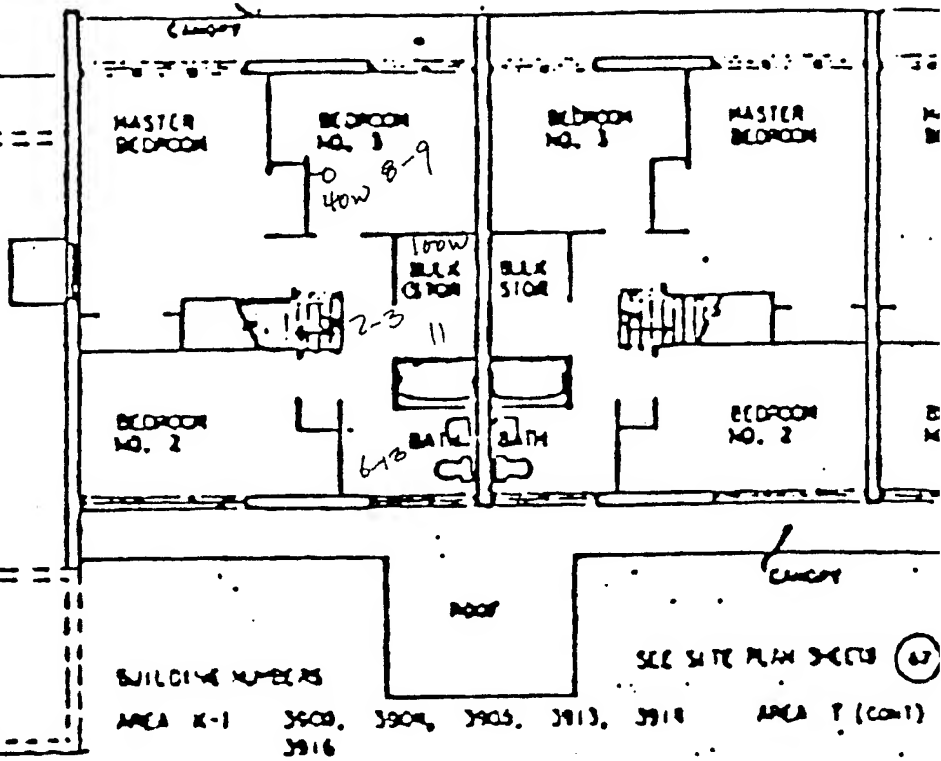
REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

REAR GARDEN
13,904 sq. ft.
30' x 46' 10"

3900 A BCDE
 3904 A BCDE
 3905 A BCDE
 3913 A BCDE
 3914 E
 3916 A



SEE SITE PLAN SHEET 2

BUILDING NUMBERS

| | | | | | | |
|----------|---|--|--|---|---|---------------|
| AREA K-1 | 3900,
3916 | 3904, | 3905, | 3913, | 3914 | AREA T (CONT) |
| AREA T | NO. 1,
NO. 3,
NO. 29,
NO. 112, | NO. 2,
NO. 17,
NO. 32,
NO. 115, | NO. 4,
NO. 18,
NO. 33,
NO. 116, | NO. 10,
NO. 21,
NO. 34,
NO. 117, | NO. 11,
NO. 22,
NO. 35,
NO. 118, | |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3904

Building Type: 57-VIII

Apartment: C

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all Day

No. of Occupants: 5

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as

57 III

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

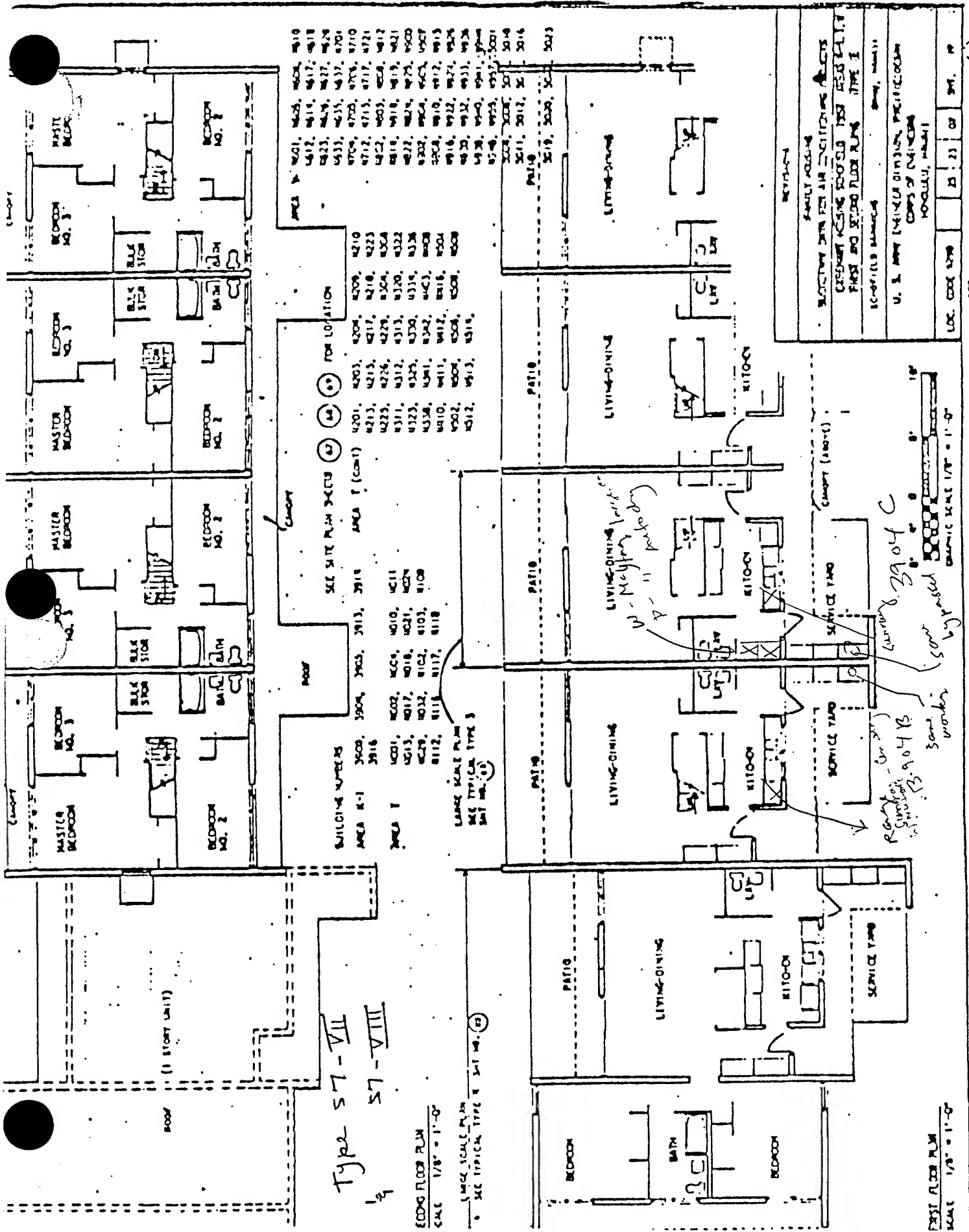
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|--------------|
| Kit Sk | 30/105 | 110 | No restrictn |
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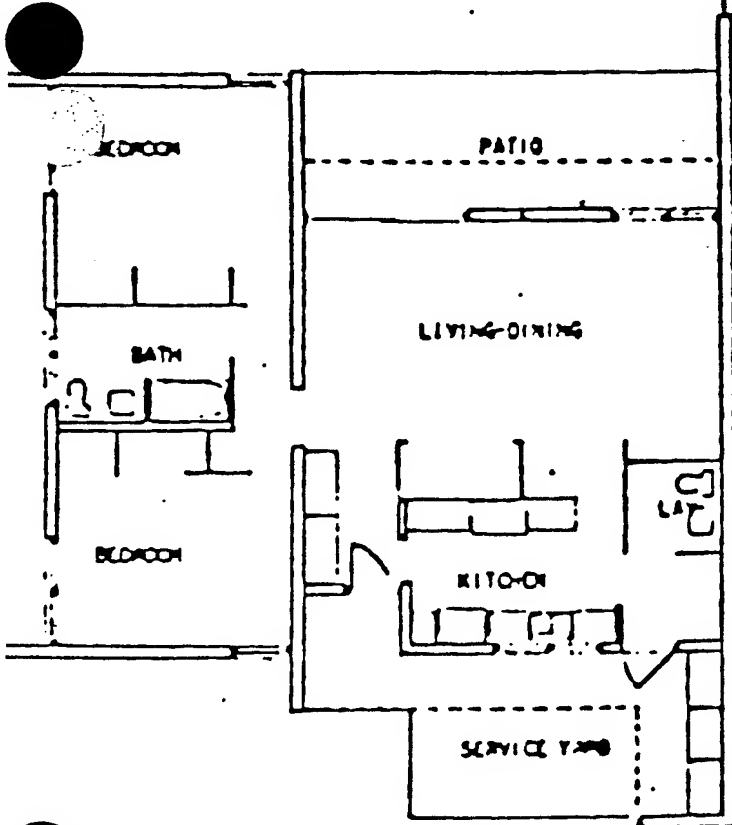


3900 ABCDE
 3904 ABCDE
 3905 ABCDE
 3913 ABCDE
 3914 E
 3916 A

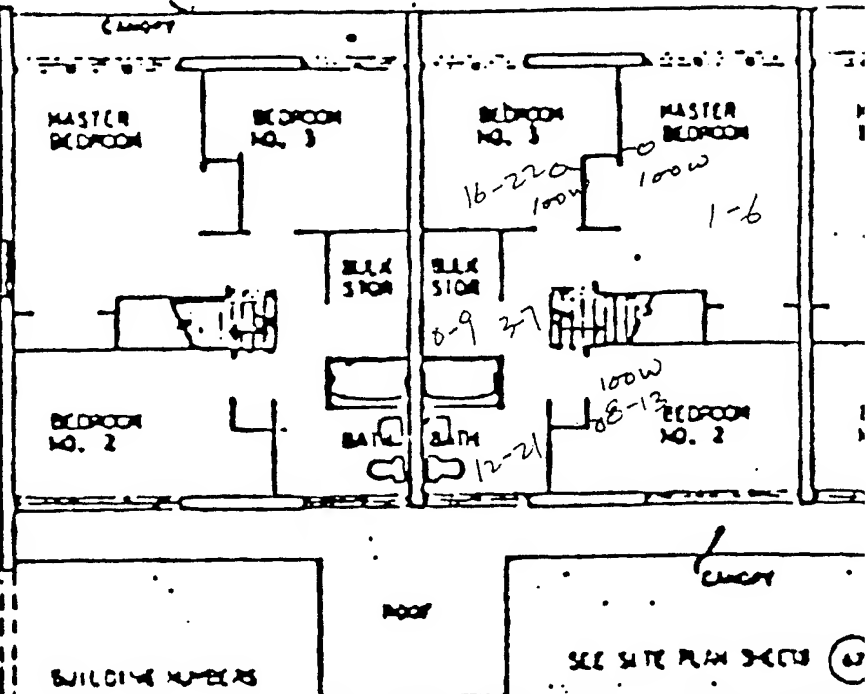
Type S7-VII
 S7-VIII

COND FLOOR PLAN
 SCALE 1/8" = 1'-0"

LARGE SCALE PLAN
 SEE TYPICAL TYPE 4 SHT NO. 63

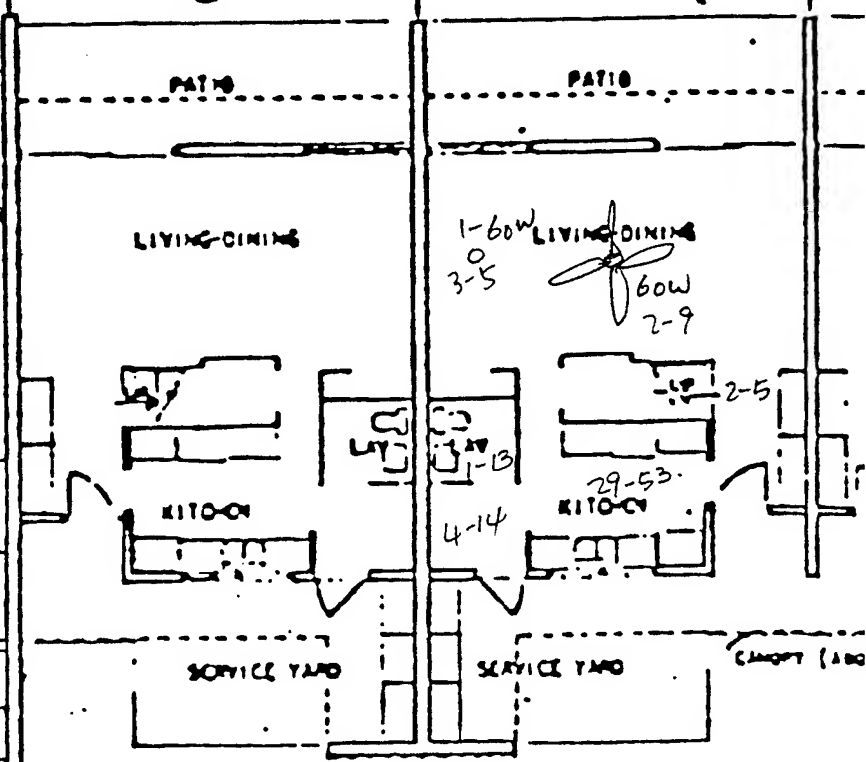


COND FLOOR PLAN
 SCALE 1/8" = 1'-0"



BUILDING NUMBERS
 AREA K-1 3900, 3904, 3905, 3913, 3914, 3916
 AREA T MC01, MC02, MC04, MC10, MC11, MC13, MC17, MC18, MC21, MC24, MC28, MC32, MC02, MC03, MC08, MC12, MC16, MC17, MC18

LARGE SCALE PLAN
 SEE TYPICAL TYPE 5 SHT NO. 63



GRAPHIC SCALE 1/8" = 1'-0"

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3904

Building Type: 57-VIII

Apartment: 2

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 4

Average No. of Showers/Day: 8

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

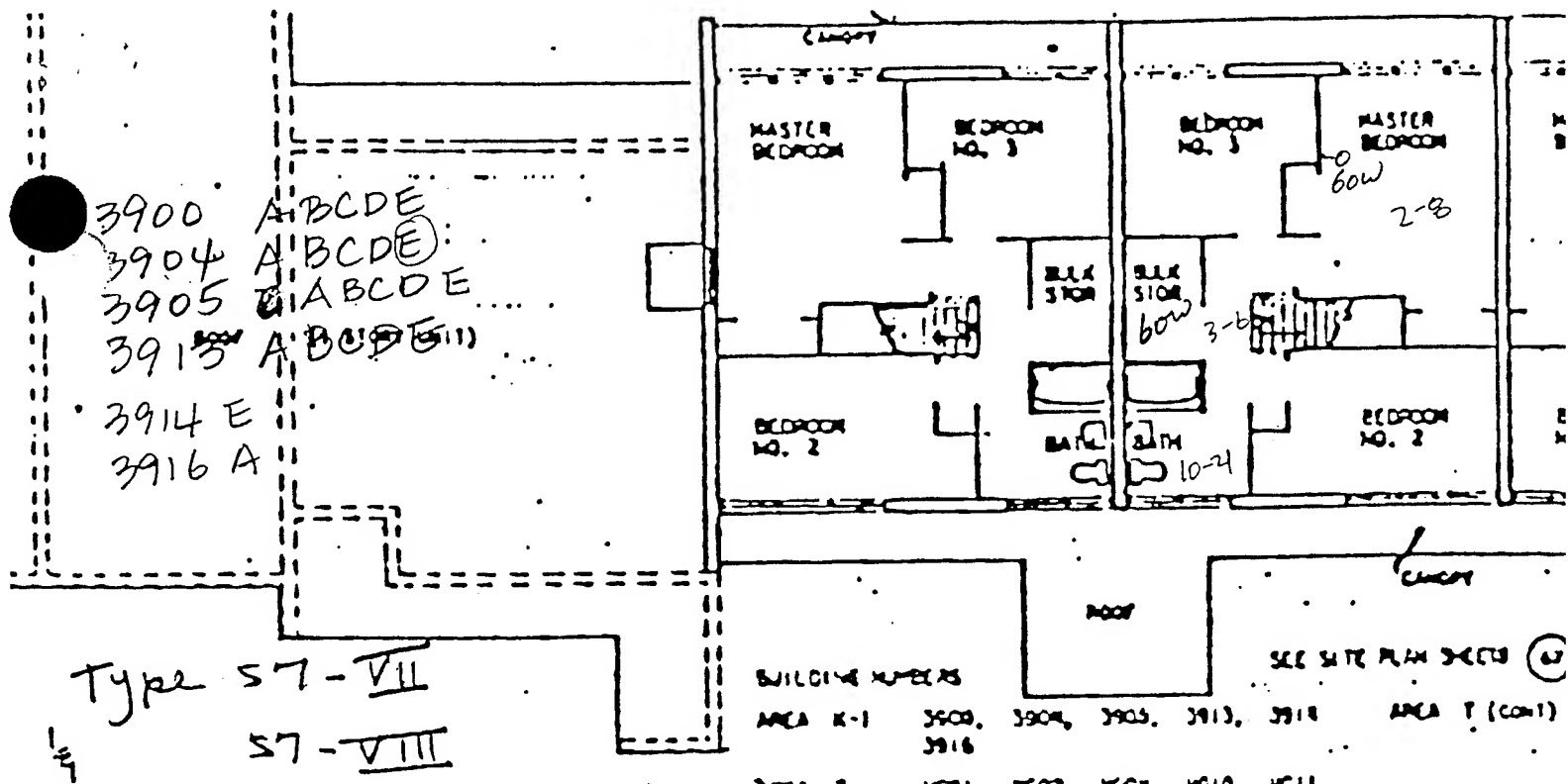
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

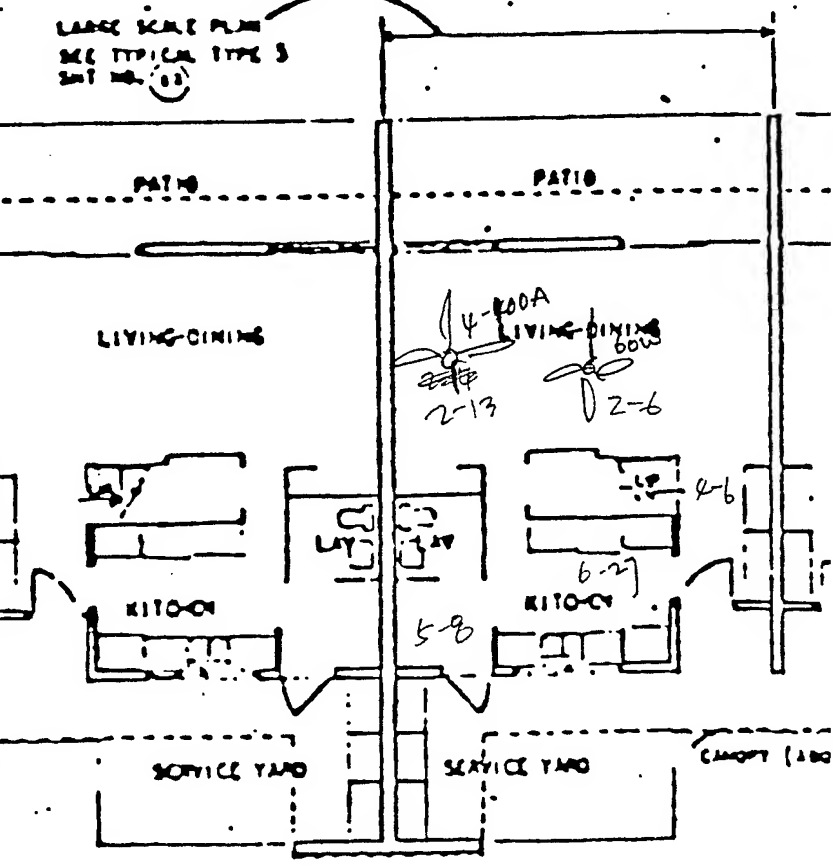
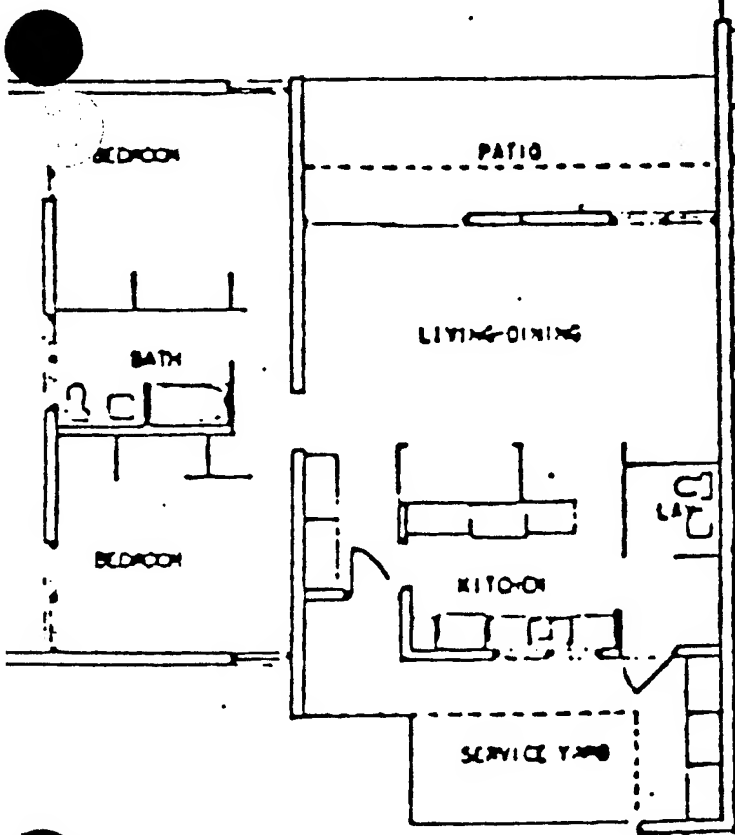
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------|-----------|-------------|---------|
| Kit. S/H | 2.5 l/10s | 124 | |
| Shower | 2 l/10s | 122 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



COND FLOOR PLAN
 1/8" = 1'-0"

LARGE SCALE PLAN
 SEE TYPICAL TYPE 4 SHI NO. 22



COND PLAN
 1/8" = 1'-0"

GRAPHIC SCALE 1/8" = 1'-0"

UNIT TYPE 57-IX

Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3908

Building Type: 57-1x

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all day

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

| Window | Yes | No |
|--------------------|-----|----|
| Tinted | ✓ | |
| Reflective Coating | | ✓ |

3.0 HOT WATER SYSTEM

Same as: 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated? _____

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

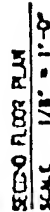
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| KIT FSK | 12/105 | 122 | |
| | | | |
| | | | |
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Spence
...
...ixcap...
as noted.



Type 57-IX

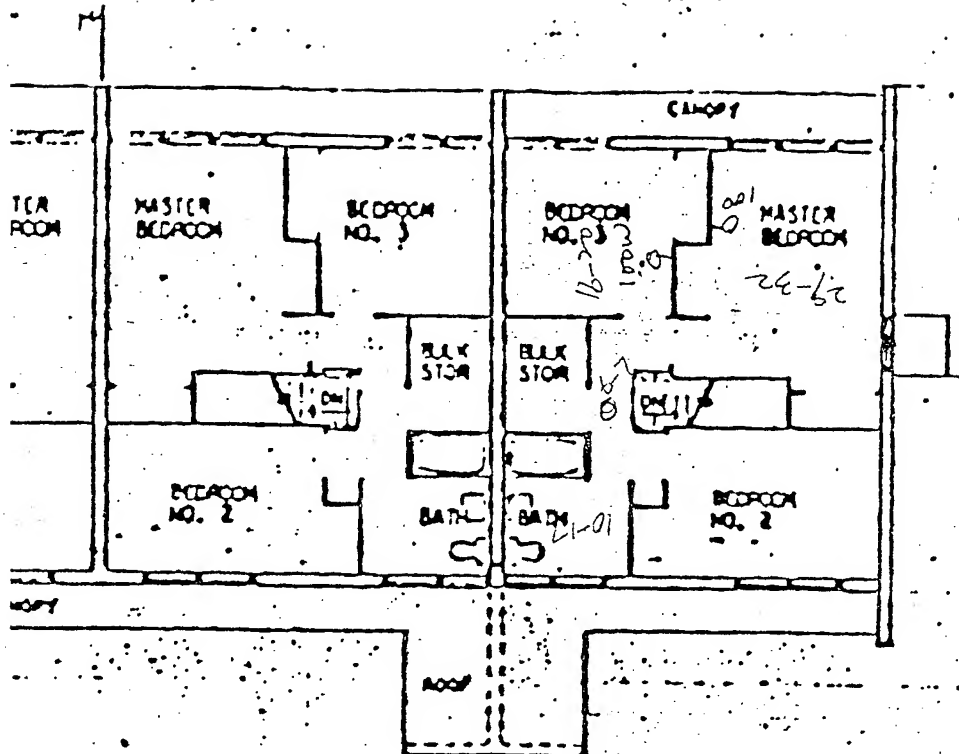
BILLING NUMBER

| | | | | |
|---------|-------|-------|-------|------|
| APU K-1 | 3963, | 3968, | 3970, | 3910 |
| APU I | 4008, | 4008, | 4016, | 4022 |
| | 4008, | 4008, | 4020, | 4108 |
| | 4111, | 4118, | 4205, | 4208 |
| | 4220, | 4278, | 4309, | 4305 |
| | 4304, | 4316, | 4317, | 4377 |
| | 4331, | 4332, | 4318, | 4407 |
| | 4413, | 4507, | 4608, | |
| APU M | 4602, | 4608, | 4619, | 4622 |
| | 4637, | 4636, | 4707, | 4800 |
| | 4853, | 4810, | 4816, | 4816 |
| | 4913, | 4923, | 4928, | 4929 |
| | 4931, | 4942, | 4947, | 4951 |
| | 4952, | 4956, | 5002, | 5006 |
| | 5027, | 5034, | | |

SEE SITE PLANS SHEET
FOR LOCATION



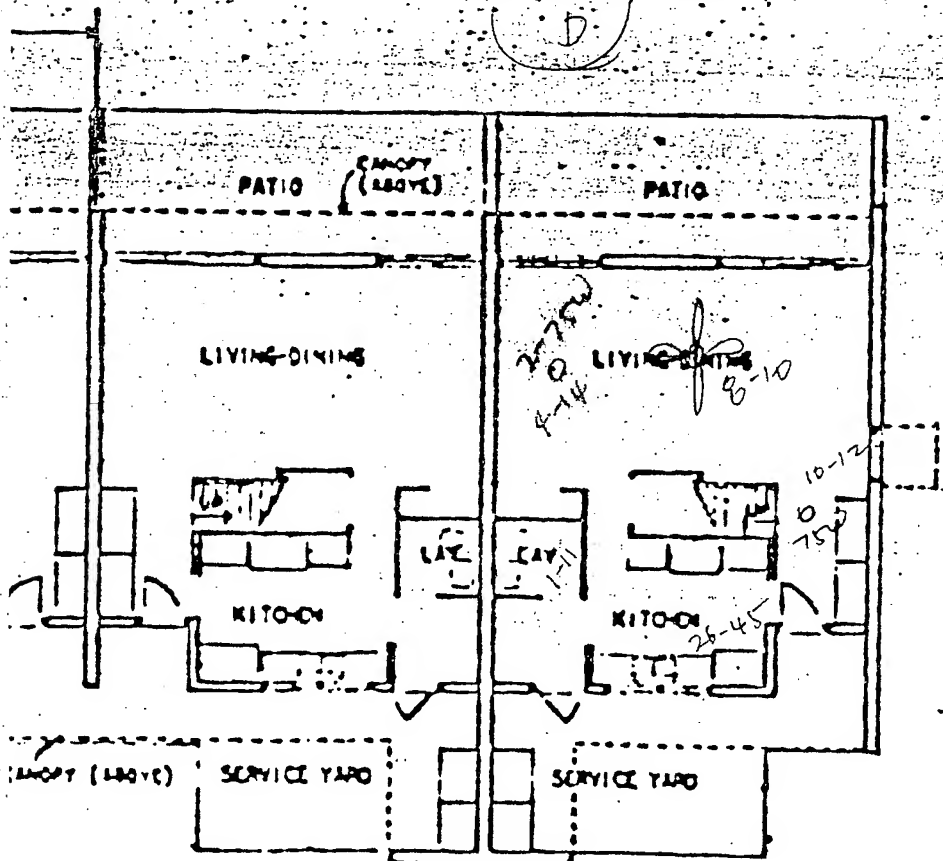
| | |
|--|-------------|
| REVISIONS | |
| FAMILY HOUSING | |
| SECRETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CAPITOL HOUSE SO-CALLED 1957 | WAS E-1.1.4 |
| FIRST AND SECOND FLOOR PLANS | TYPE C |
| SO-CALLED BARRACKS | ONLY, MARSH |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |
| COMPS OF ENGINEERS | |
| POOLEY, MARSH | |



TYPE 57-IX

3903, 3908, 3909, 3910

D



Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3909

Building Type: 57-1X

Apartment: C

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all day every other day

No. of Occupants: 4

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 3

Average No. of Times Dishwasher Used/Day: Not used

Remarks: _____

2.0 ARCHITECTURAL

same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

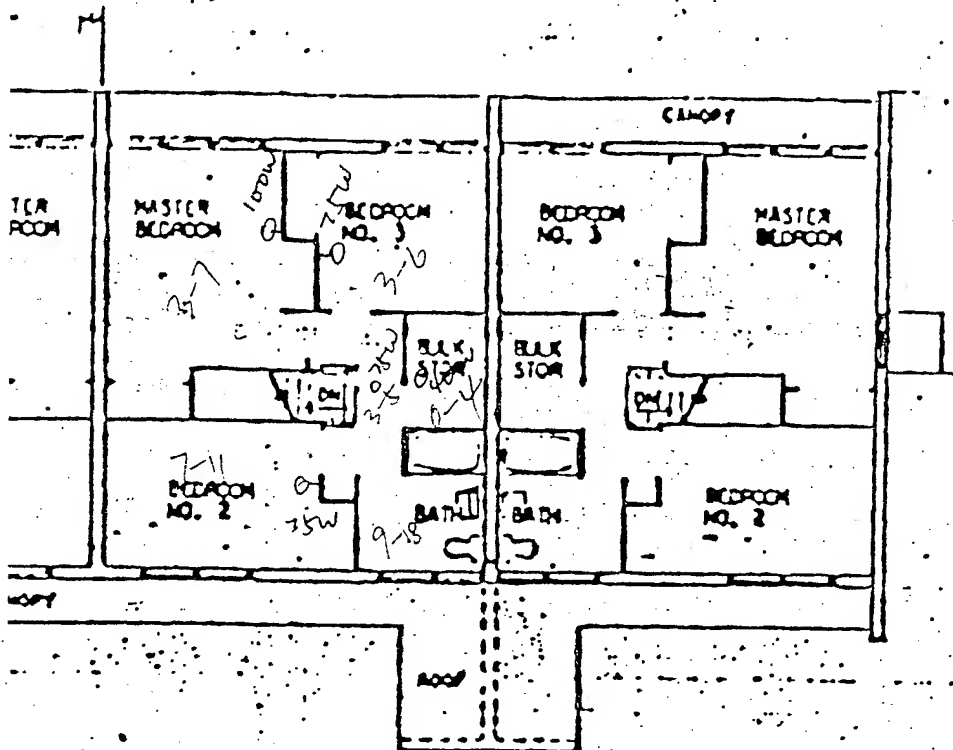
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

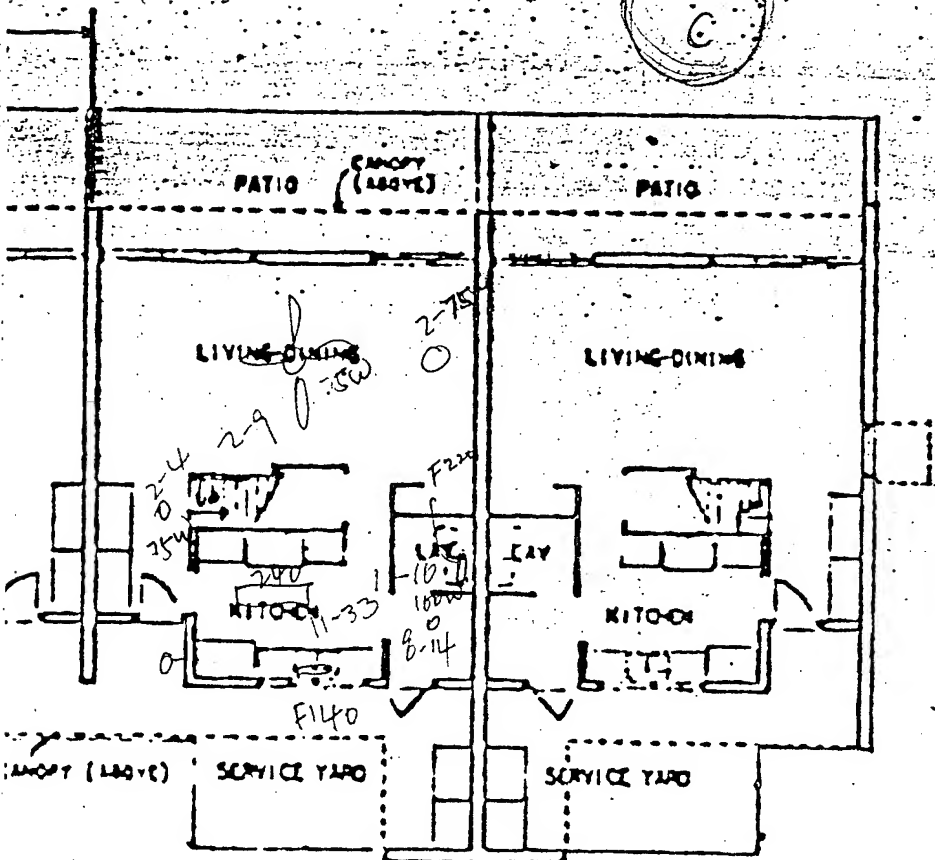
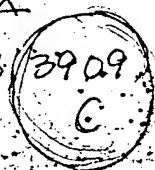
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|----------|-------------|---------|
| KIT SK | 1.5ℓ/10s | 114 | |
| Bathroom Shower | 5ℓ/10s | 114 | |
| | | | |
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| | | | |
| | | | |



TYPE 57-IX

3903, 3908, 3909, 3910



Date: 11/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3909

Building Type: 57-1X

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all Day

No. of Occupants: 5

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: even, other day

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted _____
Reflective Coating _____

same as 57-111

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

_____ Central Plant _____ One System per Building
_____ Several Small Systems per Building
_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circulator _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
 - 1) Storage _____
 - 2) Instantaneous _____
 - 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

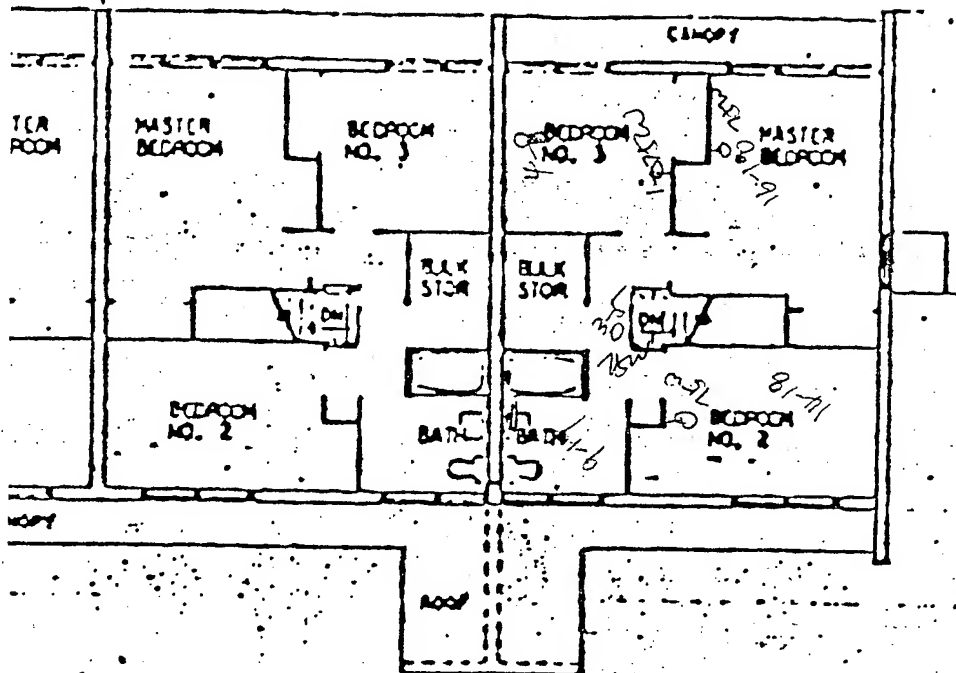
- 1) Mfg/Mdl _____
- 2) Gallons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

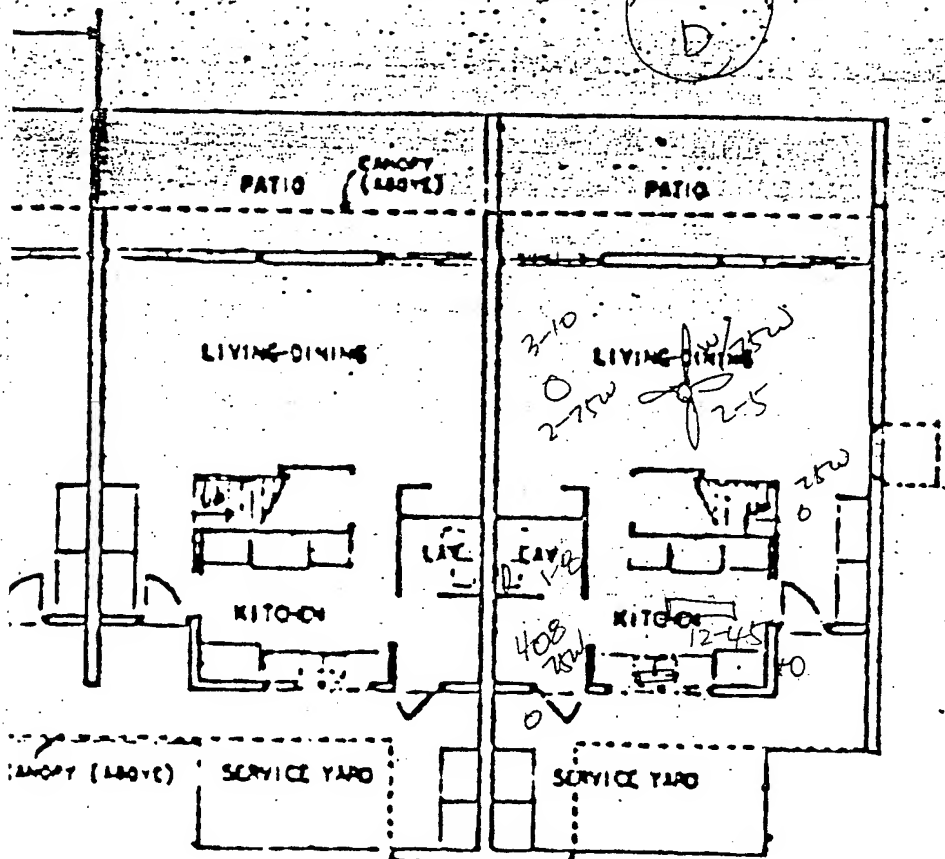
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|--------|-------------|---------|
| Kit. Sk | 32/10s | 96F | |
| Bathroom Shower | 22/10s | 96F | |
| | | | |
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| | | | |



TYPE 57-IX

3903, 3908, 3909, 3910



Date: 1/17/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3910

Building Type: 57 - 1X

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

same as S7-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-111

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

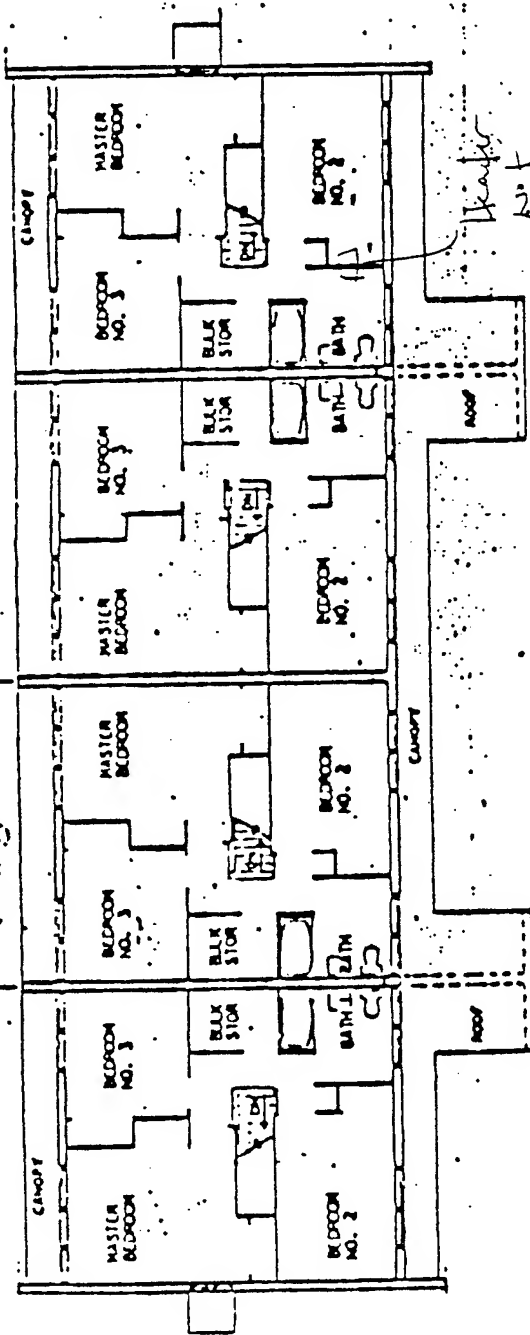
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|---------|-------------|---------|
| Bathroom Shower | 2.2/10s | 102 | |
| | | | |
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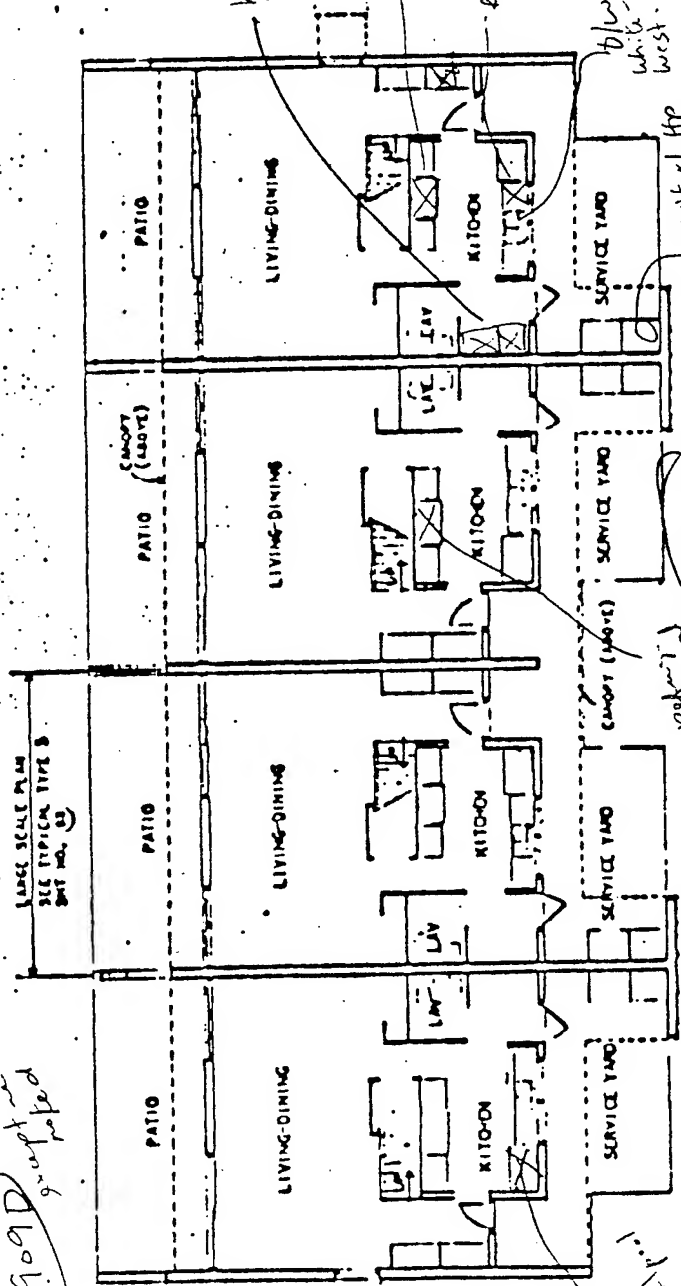


Type 57-IX

BUILDING NUMBERS

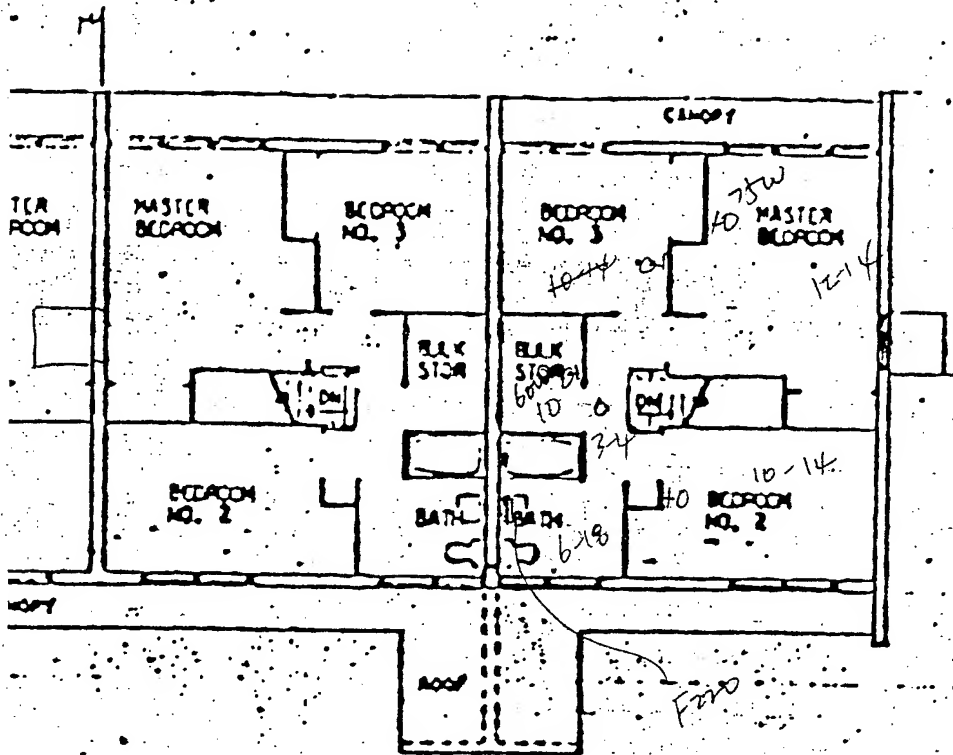
| | |
|----------|--|
| AREA K-1 | 3903, 3904, 3905, 3906 |
| AREA L | 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 4028, 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045, 4046, 4047, 4048, 4049, 4050, 4051, 4052, 4053, 4054, 4055, 4056, 4057, 4058, 4059, 4060, 4061, 4062, 4063, 4064, 4065, 4066, 4067, 4068, 4069, 4070, 4071, 4072, 4073, 4074, 4075, 4076, 4077, 4078, 4079, 4080, 4081, 4082, 4083, 4084, 4085, 4086, 4087, 4088, 4089, 4090, 4091, 4092, 4093, 4094, 4095, 4096, 4097, 4098, 4099, 4100, 4101, 4102, 4103, 4104, 4105, 4106, 4107, 4108, 4109, 4110, 4111, 4112, 4113, 4114, 4115, 4116, 4117, 4118, 4119, 4120, 4121, 4122, 4123, 4124, 4125, 4126, 4127, 4128, 4129, 4130, 4131, 4132, 4133, 4134, 4135, 4136, 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4145, 4146, 4147, 4148, 4149, 4150, 4151, 4152, 4153, 4154, 4155, 4156, 4157, 4158, 4159, 4160, 4161, 4162, 4163, 4164, 4165, 4166, 4167, 4168, 4169, 4170, 4171, 4172, 4173, 4174, 4175, 4176, 4177, 4178, 4179, 4180, 4181, 4182, 4183, 4184, 4185, 4186, 4187, 4188, 4189, 4190, 4191, 4192, 4193, 4194, 4195, 4196, 4197, 4198, 4199, 4200, 4201, 4202, 4203, 4204, 4205, 4206, 4207, 4208, 4209, 4210, 4211, 4212, 4213, 4214, 4215, 4216, 4217, 4218, 4219, 4220, 4221, 4222, 4223, 4224, 4225, 4226, 4227, 4228, 4229, 4230, 4231, 4232, 4233, 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4242, 4243, 4244, 4245, 4246, 4247, 4248, 4249, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 4265, 4266, 4267, 4268, 4269, 4270, 4271, 4272, 4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4294, 4295, 4296, 4297, 4298, 4299, 4300, 4301, 4302, 4303, 4304, 4305, 4306, 4307, 4308, 4309, 4310, 4311, 4312, 4313, 4314, 4315, 4316, 4317, 4318, 4319, 4320, 4321, 4322, 4323, 4324, 4325, 4326, 4327, 4328, 4329, 4330, 4331, 4332, 4333, 4334, 4335, 4336, 4337, 4338, 4339, 4340, 4341, 4342, 4343, 4344, 4345, 4346, 4347, 4348, 4349, 4350, 4351, 4352, 4353, 4354, 4355, 4356, 4357, 4358, 4359, 4360, 4361, 4362, 4363, 4364, 4365, 4366, 4367, 4368, 4369, 4370, 4371, 4372, 4373, 4374, 4375, 4376, 4377, 4378, 4379, 4380, 4381, 4382, 4383, 4384, 4385, 4386, 4387, 4388, 4389, 4390, 4391, 4392, 4393, 4394, 4395, 4396, 4397, 4398, 4399, 4400, 4401, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4414, 4415, 4416, 4417, 4418, 4419, 4420, 4421, 4422, 4423, 4424, 4425, 4426, 4427, 4428, 4429, 4430, 4431, 4432, 4433, 4434, 4435, 4436, 4437, 4438, 4439, 4440, 4441, 4442, 4443, 4444, 4445, 4446, 4447, 4448, 4449, 4450, 4451, 4452, 4453, 4454, 4455, 4456, 4457, 4458, 4459, 4460, 4461, 4462, 4463, 4464, 4465, 4466, 4467, 4468, 4469, 4470, 4471, 4472, 4473, 4474, 4475, 4476, 4477, 4478, 4479, 4480, 4481, 4482, 4483, 4484, 4485, 4486, 4487, 4488, 4489, 4490, 4491, 4492, 4493, 4494, 4495, 4496, 4497, 4498, 4499, 4500, 4501, 4502, 4503, 4504, 4505, 4506, 4507, 4508, 4509, 4510, 4511, 4512, 4513, 4514, 4515, 4516, 4517, 4518, 4519, 4520, 4521, 4522, 4523, 4524, 4525, 4526, 4527, 4528, 4529, 4530, 4531, 4532, 4533, 4534, 4535, 4536, 4537, 4538, 4539, 4540, 4541, 4542, 4543, 4544, 4545, 4546, 4547, 4548, 4549, 4550, 4551, 4552, 4553, 4554, 4555, 4556, 4557, 4558, 4559, 4560, 4561, 4562, 4563, 4564, 4565, 4566, 4567, 4568, 4569, 4570, 4571, 4572, 4573, 4574, 4575, 4576, 4577, 4578, 4579, 4580, 4581, 4582, 4583, 4584, 4585, 4586, 4587, 4588, 4589, 4590, 4591, 4592, 4593, 4594, 4595, 4596, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 4604, 4605, 4606, 4607, 4608, 4609, 4610, 4611, 4612, 4613, 4614, 4615, 4616, 4617, 4618, 4619, 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4636, 4637, 4638, 4639, 4640, 4641, 4642, 4643, 4644, 4645, 4646, 4647, 4648, 4649, 4650, 4651, 4652, 4653, 4654, 4655, 4656, 4657, 4658, 4659, 4660, 4661, 4662, 4663, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4672, 4673, 4674, 4675, 4676, 4677, 4678, 4679, 4680, 4681, 4682, 4683, 4684, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4694, 4695, 4696, 4697, 4698, 4699, 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710, 4711, 4712, 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4720, 4721, 4722, 4723, 4724, 4725, 4726, 4727, 4728, 4729, 4730, 4731, 4732, 4733, 4734, 4735, 4736, 4737, 4738, 4739, 4740, 4741, 4742, 4743, 4744, 4745, 4746, 4747, 4748, 4749, 4750, 4751, 4752, 4753, 4754, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765, 4766, 4767, 4768, 4769, 4770, 4771, 4772, 4773, 4774, 4775, 4776, 4777, 4778, 4779, 4780, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 4800, 4801, 4802, 4803, 4804, 4805, 4806, 4807, 4808, 4809, 4810, 4811, 4812, 4813, 4814, 4815, 4816, 4817, 4818, 4819, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4830, 4831, 4832, 4833, 4834, 4835, 4836, 4837, 4838, 4839, 4840, 4841, 4842, 4843, 4844, 4845, 4846, 4847, 4848, 4849, 4850, 4851, 4852, 4853, 4854, 4855, 4856, 4857, 4858, 4859, 4860, 4861, 4862, 4863, 4864, 4865, 4866, 4867, 4868, 4869, 4870, 4871, 4872, 4873, 4874, 4875, 4876, 4877, 4878, 4879, 4880, 4881, 4882, 4883, 4884, 4885, 4886, 4887, 4888, 4889, 4890, 4891, 4892, 4893, 4894, 4895, 4896, 4897, 4898, 4899, 4900, 4901, 4902, 4903, 4904, 4905, 4906, 4907, 4908, 4909, 4910, 4911, 4912, 4913, 4914, 4915, 4916, 4917, 4918, 4919, 4920, 4921, 4922, 4923, 4924, 4925, 4926, 4927, 4928, 4929, 4930, 4931, 4932, 4933, 4934, 4935, 4936, 4937, 4938, 4939, 4940, 4941, 4942, 4943, 4944, 4945, 4946, 4947, 4948, 4949, 4950, 4951, 4952, 4953, 4954, 4955, 4956, 4957, 4958, 4959, 4960, 4961, 4962, 4963, 4964, 4965, 4966, 4967, 4968, 4969, 4970, 4971, 4972, 4973, 4974, 4975, 4976, 4977, 4978, 4979, 4980, 4981, 4982, 4983, 4984, 4985, 4986, 4987, 4988, 4989, 4990, 4991, 4992, 4993, 4994, 4995, 4996, 4997, 4998, 4999, 5000 |

SEE SITE PLAN SHEET 3909 FOR LOCATION



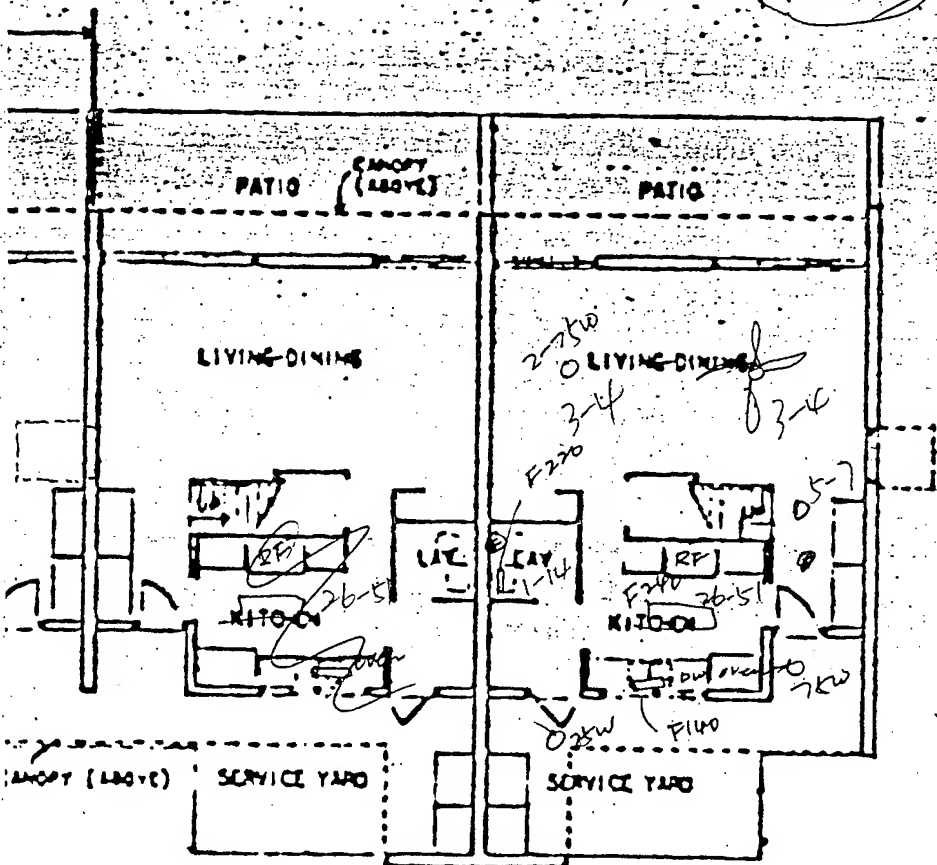
REVISIONS

| | |
|---|--|
| 1 | FAMILY HOUSING |
| 2 | SECRETARY DATA FOR AIR CONDITIONING PROJECTS |
| 3 | CUSTOMER HOUSING SOF-FIELD 1957 TYPE 5 |
| 4 | FIRST AND SECOND FLOOR PLANS |
| 5 | TYPE 5 |
| 6 | SCHOOL BUILDINGS |
| 7 | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN |
| 8 | COMPS OF ENGINEERS |



TYPE 57-IX

3903, 3908, 3909, 3910 D



UNIT TYPE 60-I

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3917

Building Type: 60 - I

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 3

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: 3

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

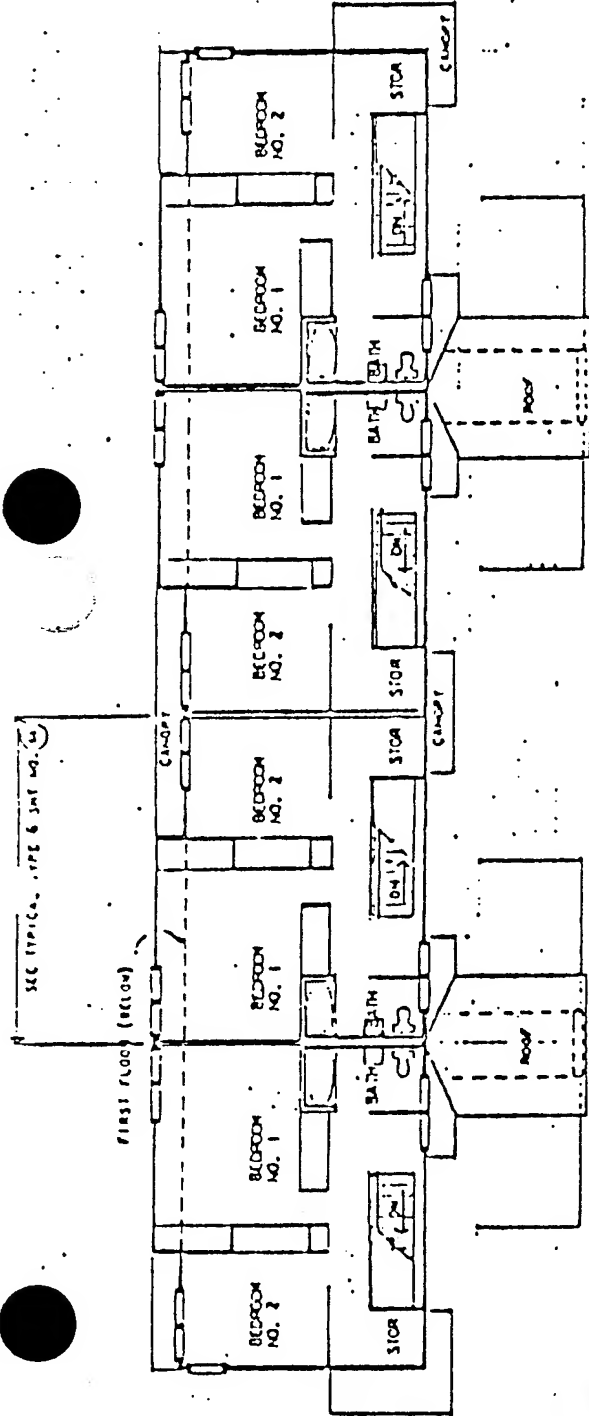
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------------|--------|-------------|---------|
| DN STAIRS
LAV. | 12/10s | 114 | |
| | | | |
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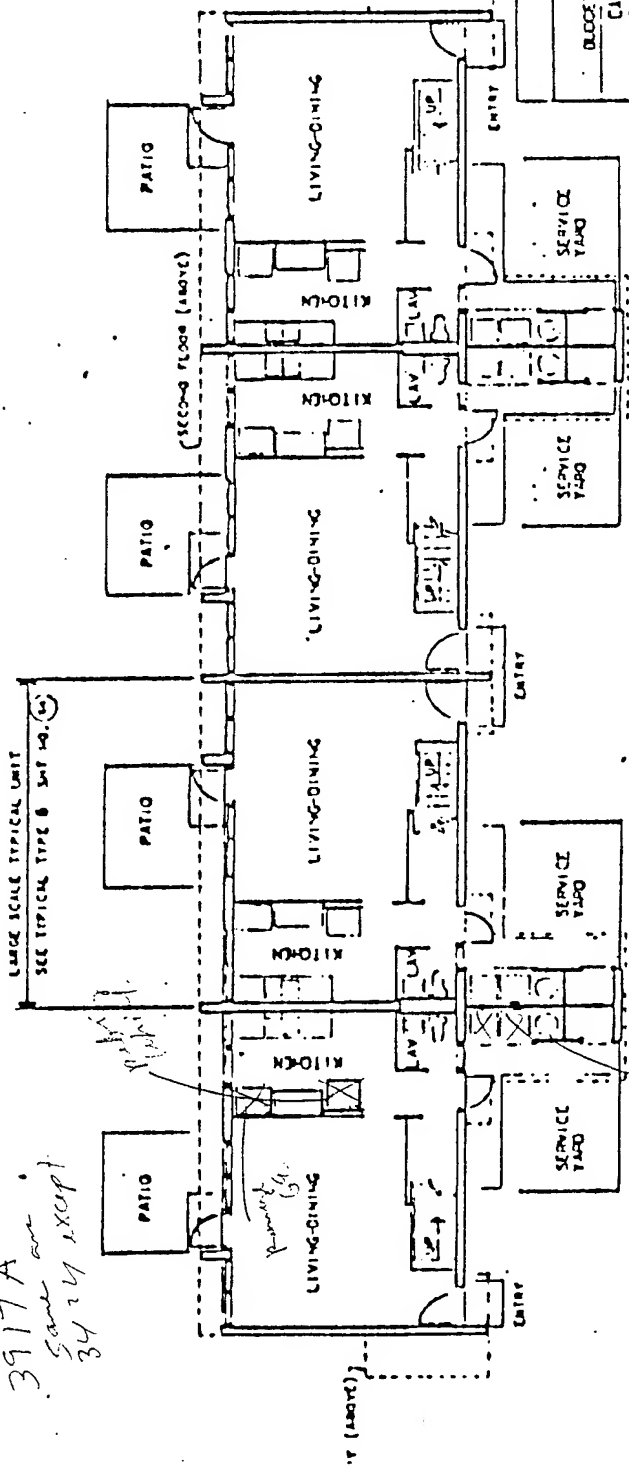


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3917A
Same as
3424 except

Type 60-I

BUILDING NUMBERS
AREA 1-1 3917, 3929, 3934, 3935
3941.
SEE SITE PLAN SHEET 67 FOR
LOCATION
AREA V 1301, 1310, 1323, 1333
1343, 1347, 1350
SEE SITE PLAN SHEET 68 FOR
LOCATION
AREA 7 4232
SEE SITE PLAN SHEET 69 FOR
LOCATION
(CANOPY (ABOVE))

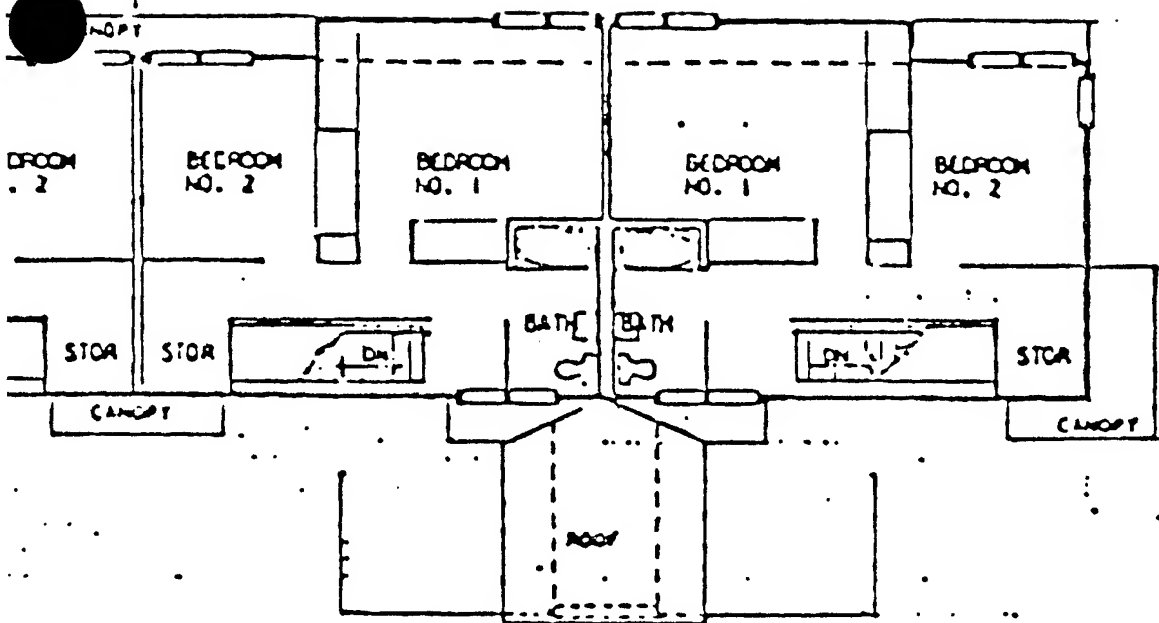


FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

0' 4" 0' 8" 16'
GRAPHIC SCALE 1/8" = 1'-0"

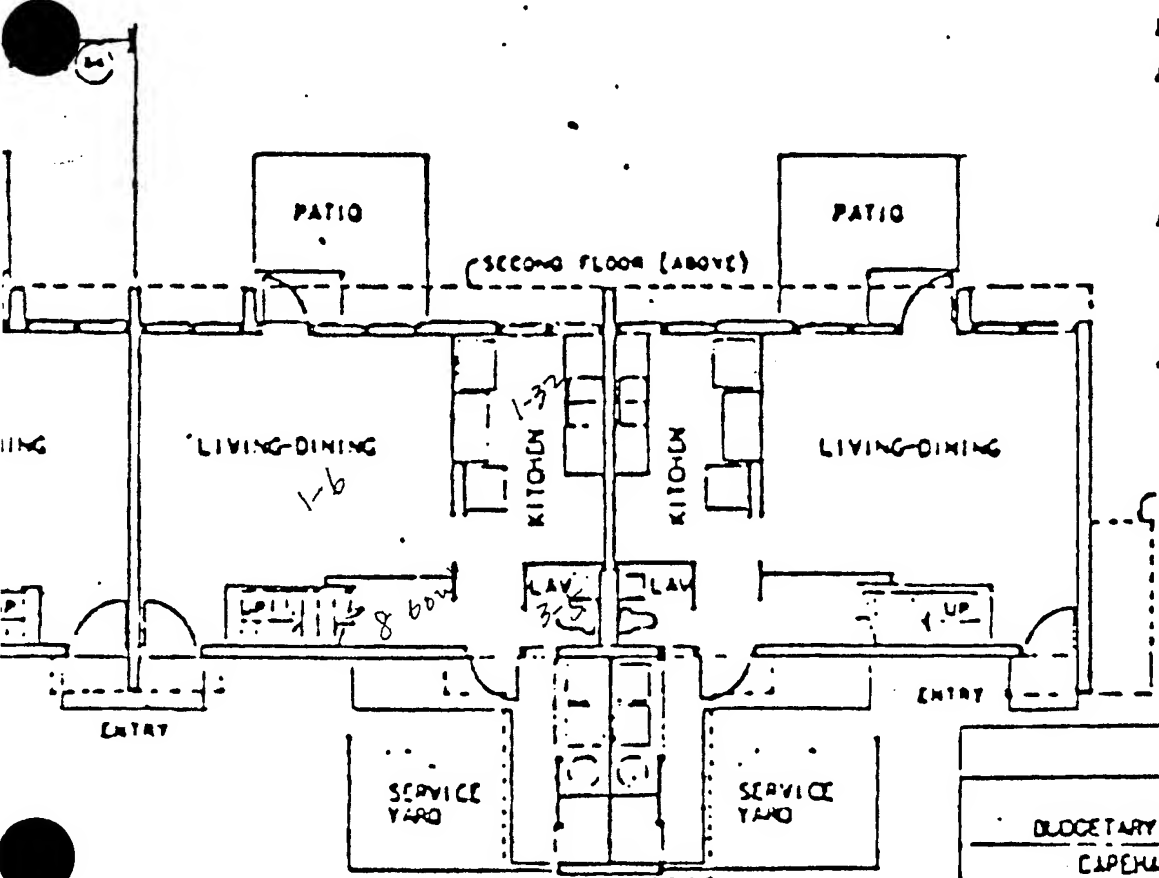
| | | | |
|--|----|----|----|
| REVISIONS | | | |
| FAMILY HOUSING | | | |
| BLOCCATORY DATA FOR AIR CONDITIONING SUBJECTS | | | |
| CAPRECHET HOUSING SOWFIELD 1963 AREAS 1-1, 1-7 | | | |
| FIRST AND SECOND FLOOR PLANS TYPE N | | | |
| SOWFIELD SUBURBS | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | |
| CORPS OF ENGINEERS | | | |
| HONOLULU, HAWAII | | | |
| LOC. CODE 3479 | 25 | 23 | 07 |
| | | | 31 |

NY NO. 64



3917 ABCD
 3924 ABCD
 3934 ABED
 3935 ABCD

Type 60-I



BUILDING NUMBERS
 AREA K-1 3917, 3924, 3934, 3941.
 SEE SITE PLAN SHEET (6) LOCATION
 AREA V 1301, 1310, 1323, 1343, 1347, 1350
 SEE SITE PLAN SHEET (6) LOCATION
 AREA T 4252
 SEE SITE PLAN SHEET (6) LOCATION

CANOPY (ABOVE)

| REVISIONS | |
|--|---------|
| FAMILY HOUSING | |
| BUDGETARY DATA FOR AIR CONDITIONING | |
| CAPENARY HOUSING SCHOFIELD 1963 AREAS | |
| FIRST AND SECOND FLOOR PLANS TYPE | |
| SCHOFIELD BARRACKS | DATA, M |
| U. S. ARMY ENGINEER DIVISION, PACIFIC CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3917 D

Building Type: 60-I

Apartment: D

No. Bedrooms: 2

Area: 1

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 3

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as 57-III

Window Yes No
Tinted /
Reflective Coating /

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

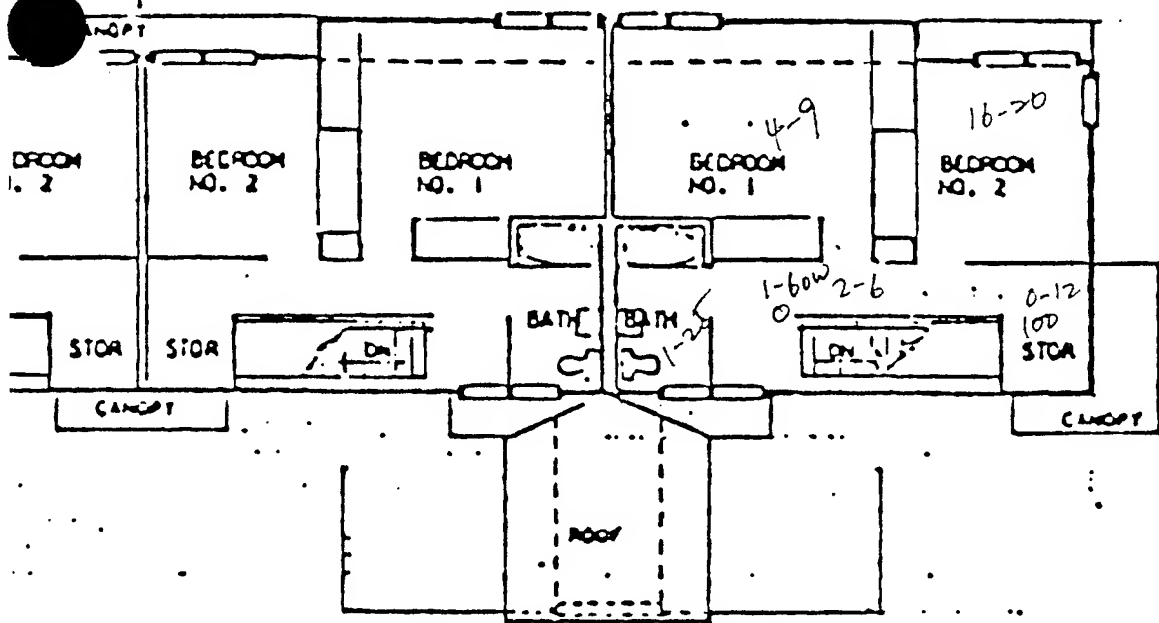
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------|-----------|-------------|-------------------------------------|
| Kit SK | 1.5 l/10s | 118 | |
| Bath Shower | 12/10s | 118 | Super Saver Shower Head by Teledyne |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

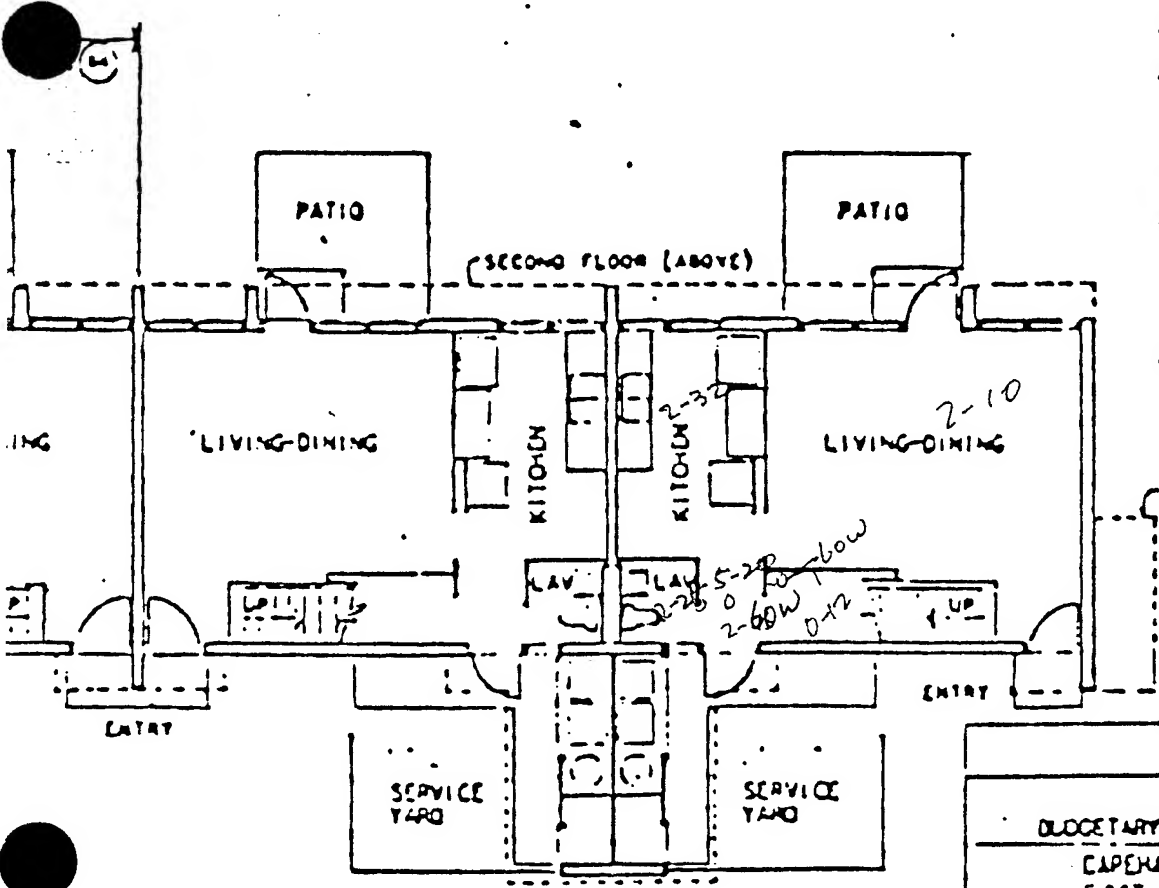
(5)

AT NO. 64



3917 ABCD
 3924 ABCD
 3934 ABED
 3935 ABCD

Type 60-I



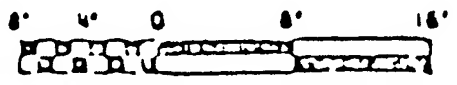
BUILDING NUMBERS

AREA K-1 3917, 3924, 3934, 3941.
 SEE SITE PLAN SHEET (LOCATION)

AREA V 1301, 1310, 1323, 1343, 1347, 1350.
 SEE SITE PLAN SHEET (LOCATION)

AREA T 4252
 SEE SITE PLAN SHEET (LOCATION)

CANYOT (ABOVE)



| REVISIONS | |
|--|---------|
| FAMILY HOUSING | |
| BUDGETARY DATA FOR AIR CONDITIONING | |
| CAPEHART HOUSING SCHOFIELD 1963 AREA | |
| FIRST AND SECOND FLOOR PLANS | TYPE |
| SCHOFIELD BARRACKS | DATA, N |
| U. S. ARMY ENGINEER DIVISION, PACIFIC CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3924

Building Type: Lo - I

Apartment: A

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 4

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 12

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. (down) _____

Wood (up) _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Roof _____

Asphalt shingles _____

Grp. Conc. _____

Inside Film _____

Total

U-Factor _____ Area

Same as
57-III

same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- 3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- (4)

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

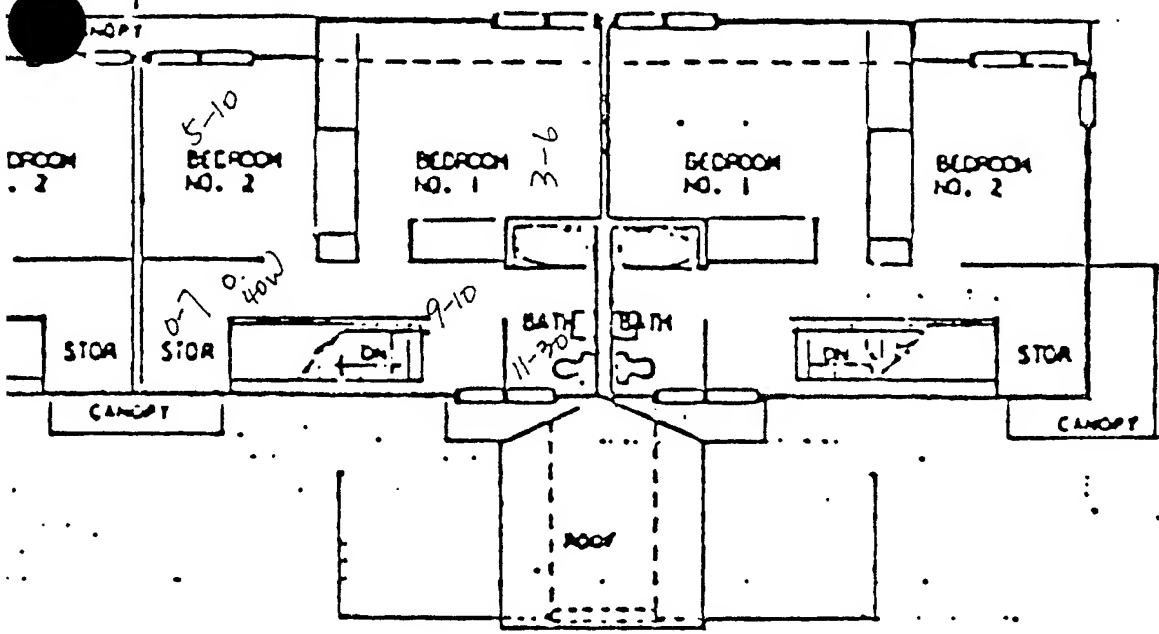
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------|----------|-------------|---------|
| Kit SK | 1.5l/10s | 130F | |
| Bath Shower | 2l/10s | 130 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



3917 ABCD
3924 (A)BCD
3934 ABED
3935 ABCD

Type 60-I

BUILDING NUMBERS

AREA K-1 3917, 3924, 3934,
 3941.

SEE SITE PLAN SHEET (6)
LOCATION

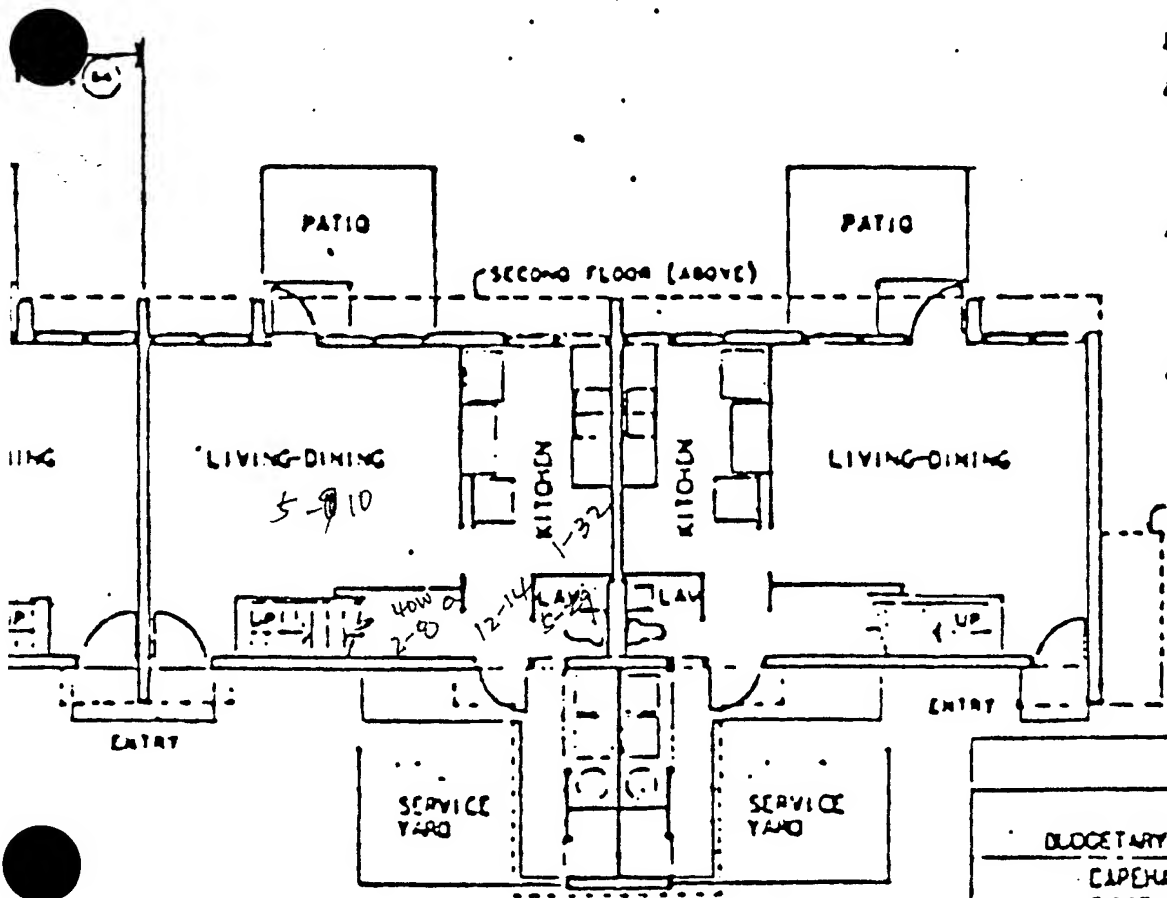
AREA V 1301, 1310, 1323,
 1343, 1347, 1350

SEE SITE PLAN SHEET (6)
LOCATION

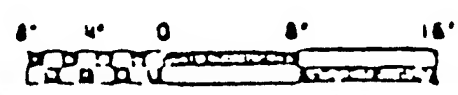
AREA T 4252

SEE SITE PLAN SHEET (6)
LOCATION

5 cannot (above)



| | |
|---|---------|
| REVISIONS | |
| FAMILY HOUSING | |
| DIODETARY DATA FOR AIR CONDITIONING | |
| CAPEHURT HOUSING SCHOFIELD 1963 AREAS | |
| FIRST AND SECOND FLOOR PLANS | TYPE |
| SCHOFIELD BARRACKS | DATA, N |
| U. S. ARMY ENGINEER DIVISION, PACIFIC O | |
| CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3924

Building Type: 60-I

Apartment: C

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 2

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1x per week

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-II

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

Same as 57-III

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

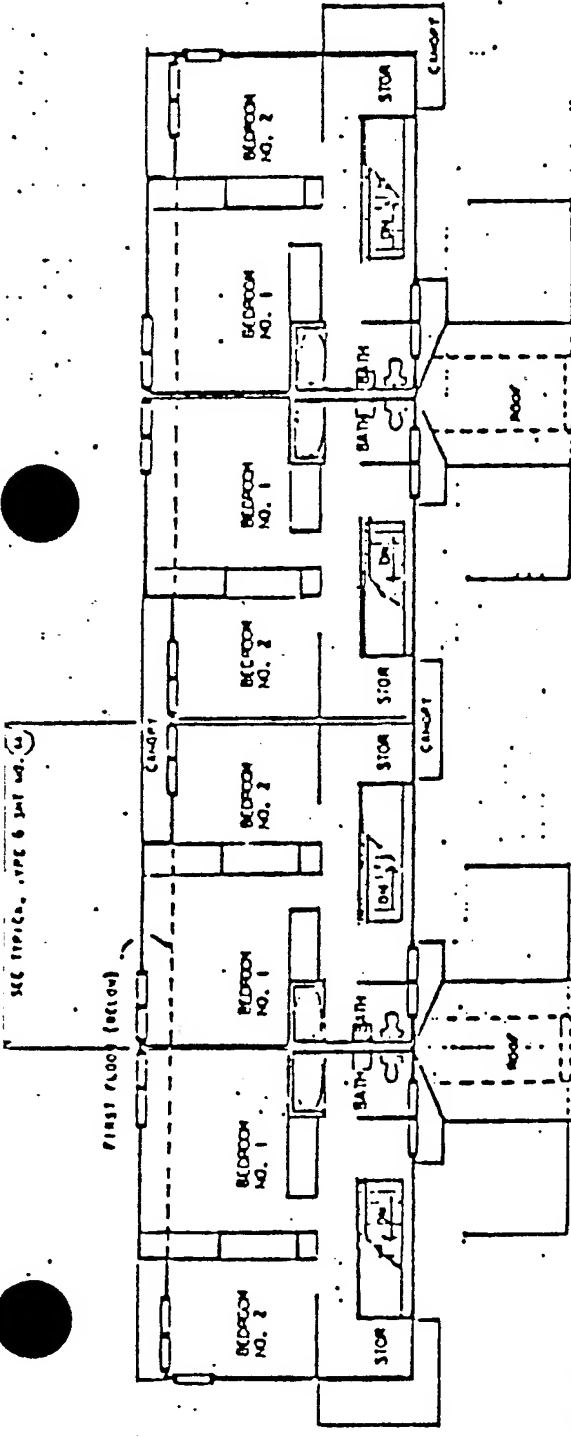
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|---------|-------------|---------|
| KIT SK | 2 1/105 | 102 | |
| | | | |
| | | | |
| | | | |
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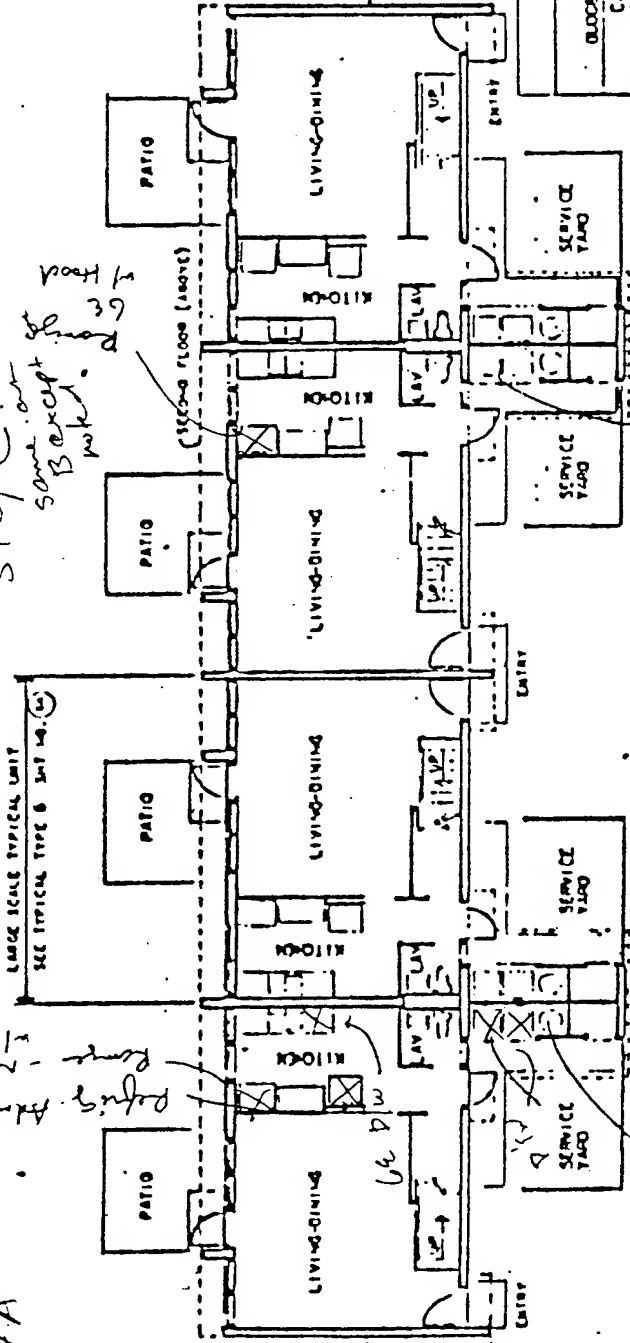
39 Z4A
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

39 Z4A
SEE TYPICAL TYPE 6 SHEET NO. 11
SEE TYPICAL TYPE 6 SHEET NO. 11

Type 60-I

BUILDING VARIANTS
AREA 1-1 3917, 3924, 3934, 3935
3941
SEE SITE PLAN SHEET 67 FOR
LOCATION
AREA 2 1301, 1310, 1313, 1333
1343, 1347, 1350
SEE SITE PLAN SHEET 67 FOR
LOCATION
AREA 3 4232
SEE SITE PLAN SHEET 68 FOR
LOCATION

39 Z4C
some of
Baptist
work



39 Z4B
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

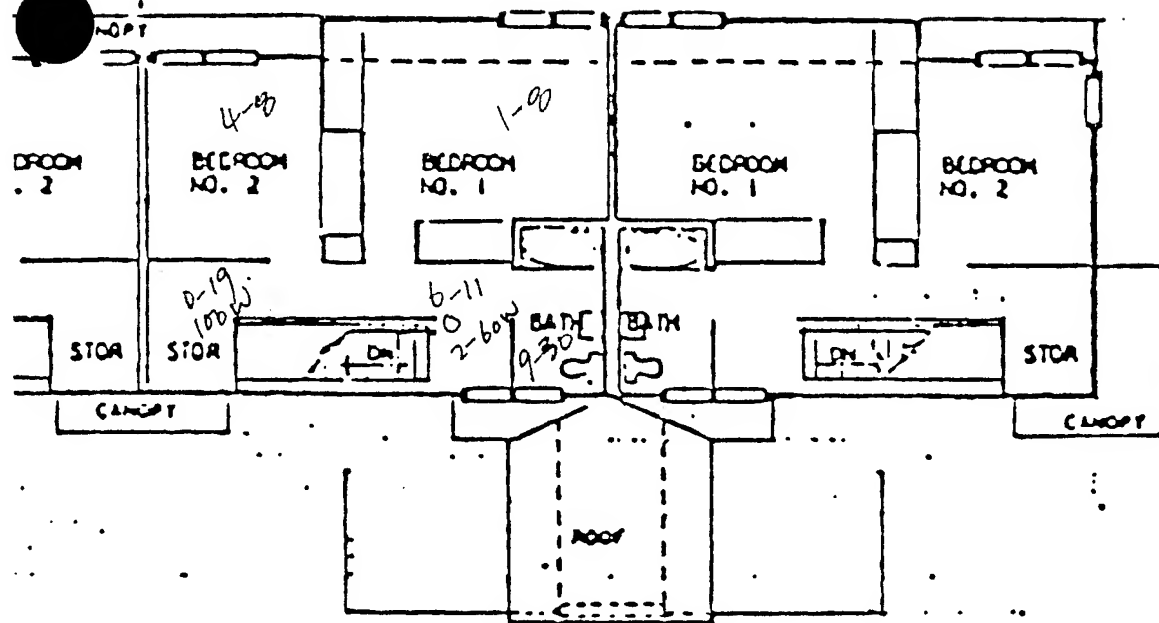
39 Z4B
SEE TYPICAL TYPE 6 SHEET NO. 11
SEE TYPICAL TYPE 6 SHEET NO. 11

| REVISIONS | | | | |
|---|----|----|----|-----|
| FAMILY HOUSING | | | | |
| BIOGRAPHIC DATA FOR AIR CRAFTING PROJECTS | | | | |
| CAMPBELL HOUSING PROJECTS, 1963 AREAS 1-1, 2, 3 | | | | |
| FIRST AND SECOND FLOOR PLANS TYPE N | | | | |
| SCOTTED BARRICKS | | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | | |
| COMPS OF ENGINEERS | | | | |
| HONOLULU, HAWAII | | | | |
| LSC CODE 3949 | 25 | 23 | 07 | 2-1 |
| | | | | 31 |

MAY 1973

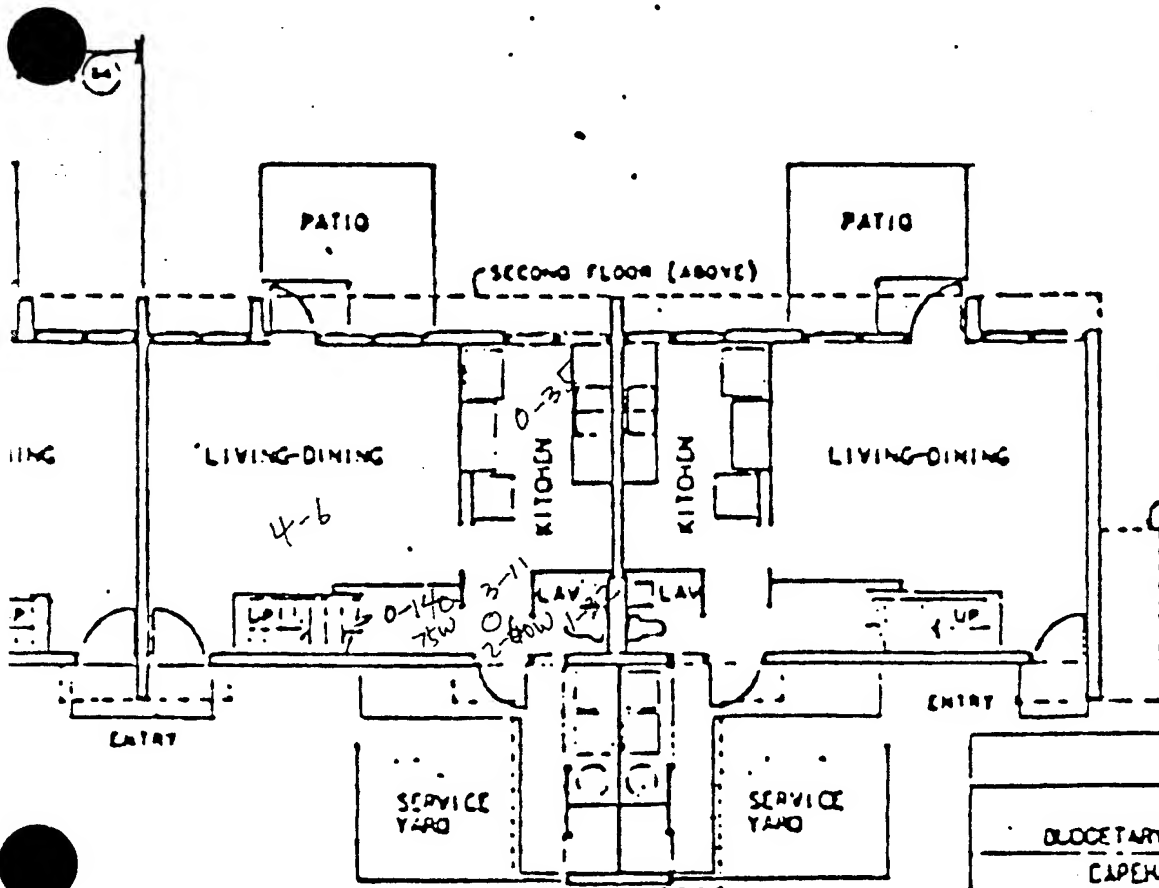
7N

AT NO. 14



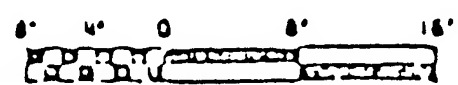
3917 ABCD
 3924 ABCD
 3934 ABED
 3935 ABCD

Type 60-I



BUILDING NUMBERS
 AREA K-1 3917, 3924, 3934, 3941.
 SEE SITE PLAN SHEET (6) LOCATION
 AREA V 1301, 1310, 1323, 1343, 1347, 1350
 SEE SITE PLAN SHEET (6) LOCATION
 AREA T 4252
 SEE SITE PLAN SHEET (6) LOCATION

CANOPY (ABOVE)



| REVISIONS | |
|---|---------|
| FAMILY HOUSING | |
| GLOSSARY DATA FOR AIR CONDITIONING | |
| CAPEHART HOUSING SCHOFIELD 1963 AFEL | |
| FIRST AND SECOND FLOOR PLANS TYPE | |
| SCHOFIELD BARACKS | DATA, N |
| U. S. ARMY ENGINEER DIVISION, PACIFIC O | |
| CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3934

Building Type: 60-1

Apartment: C

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 3

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Same as ST-III

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Conc. wall

wood siding

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

wood roof

asphalt shingles

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted ✓
Reflective Coating ✓

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as 57-III

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

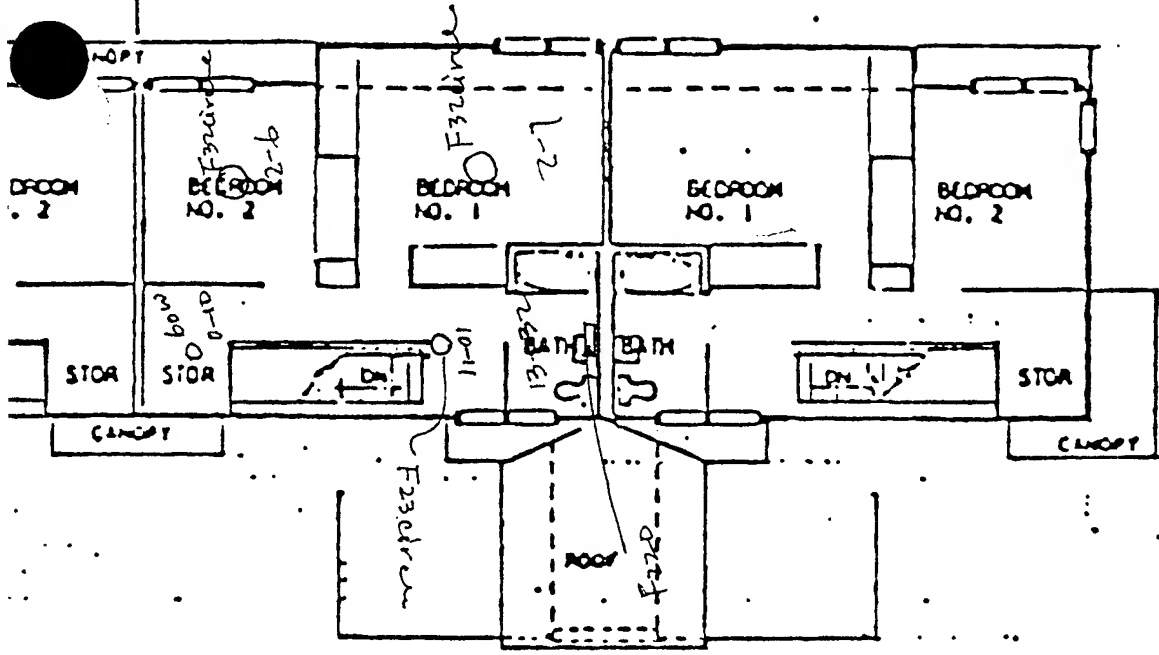
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

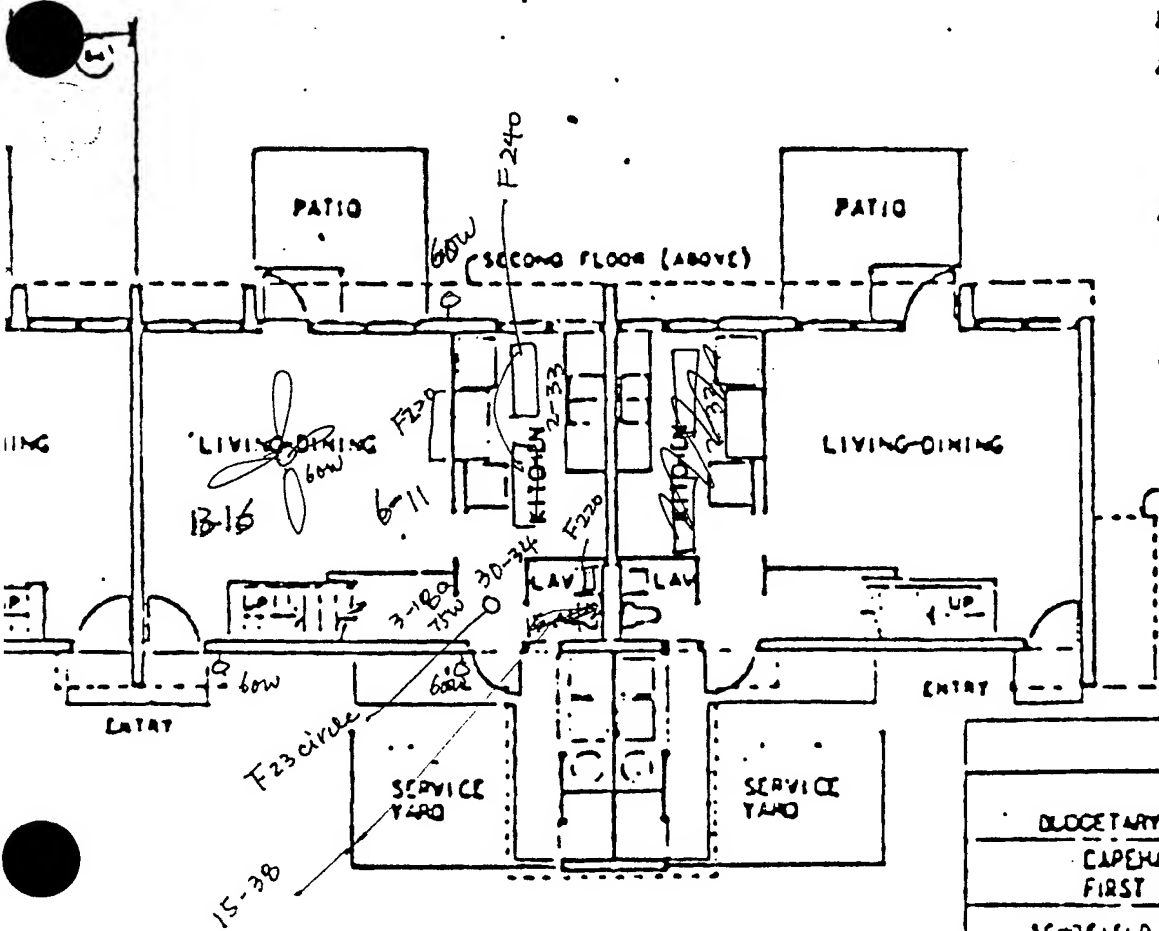
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|----------|-------------|-------------|
| KIT SK | 1.52/10s | 130° | ul Flow Red |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



3917 ABCD
3924 ABCD
3934 AB~~CD~~
3935 ABCD

Type 60-I



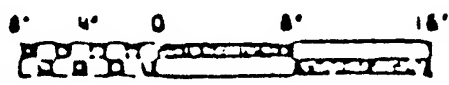
BUILDING NUMBERS

AREA K-1 3917. 3924. 3934.
3941.
SEE SITE PLAN SHEET (A)
LOCATION

AREA V 1301. 1310. 1323.
1343. 1347. 1350
SEE SITE PLAN SHEET (A)
LOCATION

AREA T 4252
SEE SITE PLAN SHEET (A)
LOCATION

| | |
|--|----------------|
| <p>REVISIONS</p> | |
| <p>FAMILY HOUSING</p> | |
| <p>DIETETARY DATA FOR AIR CONDITIONING PLAN</p> | |
| <p>CAPEHART HOUSING SCHOFIELD 1963 AREA</p> | |
| <p>FIRST AND SECOND FLOOR PLANS TYPE</p> | |
| <p>SCHOFIELD BARRACKS</p> | <p>DATA, H</p> |
| <p>U. S. ARMY ENGINEER DIVISION, PACIFIC C
CORPS OF ENGINEERS
HONOLULU, HAWAII</p> | |



Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3935

Building Type: 60-I

Apartment: B

No. Bedrooms: 2

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 2

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 5

Average No. of Times Dishwasher Used/Day: 1 week

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Same as 57-III

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted _____
Reflective Coating _____

3.0 HOT WATER SYSTEM

Same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

_____ Central Plant _____ One System per Building
_____ Several Small Systems per Building
_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circulator _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
 - 1) Storage _____
 - 2) Instantaneous _____
 - 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

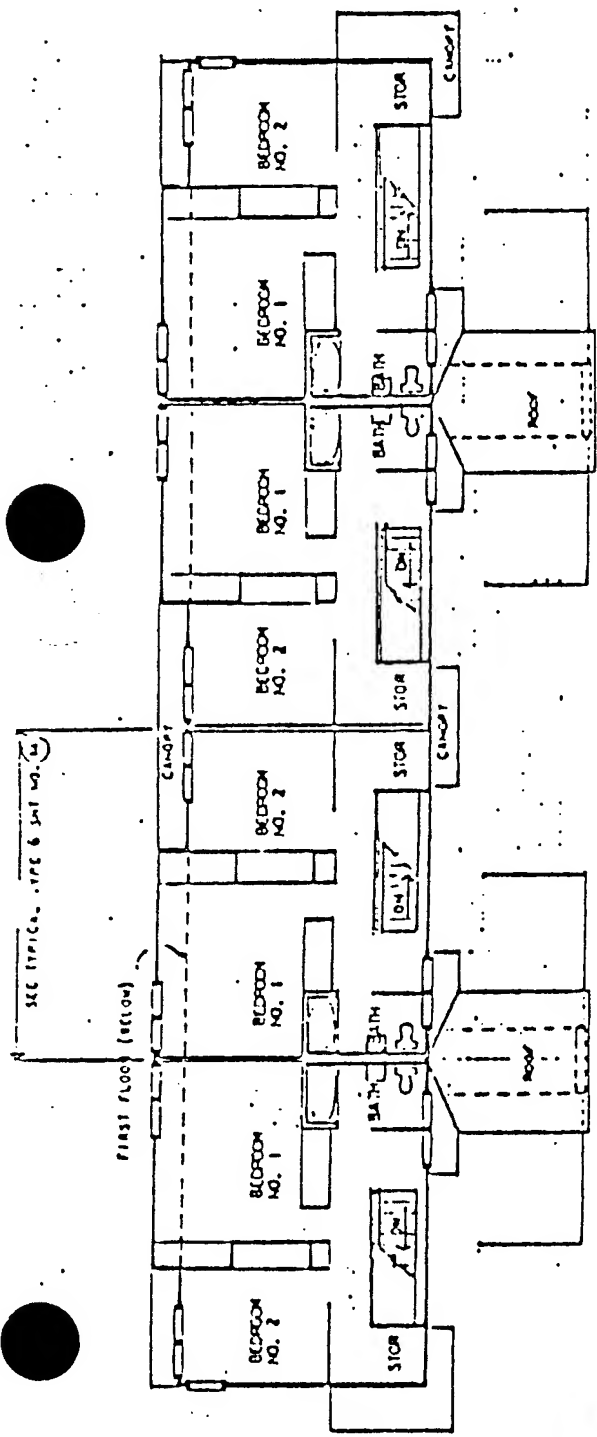
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

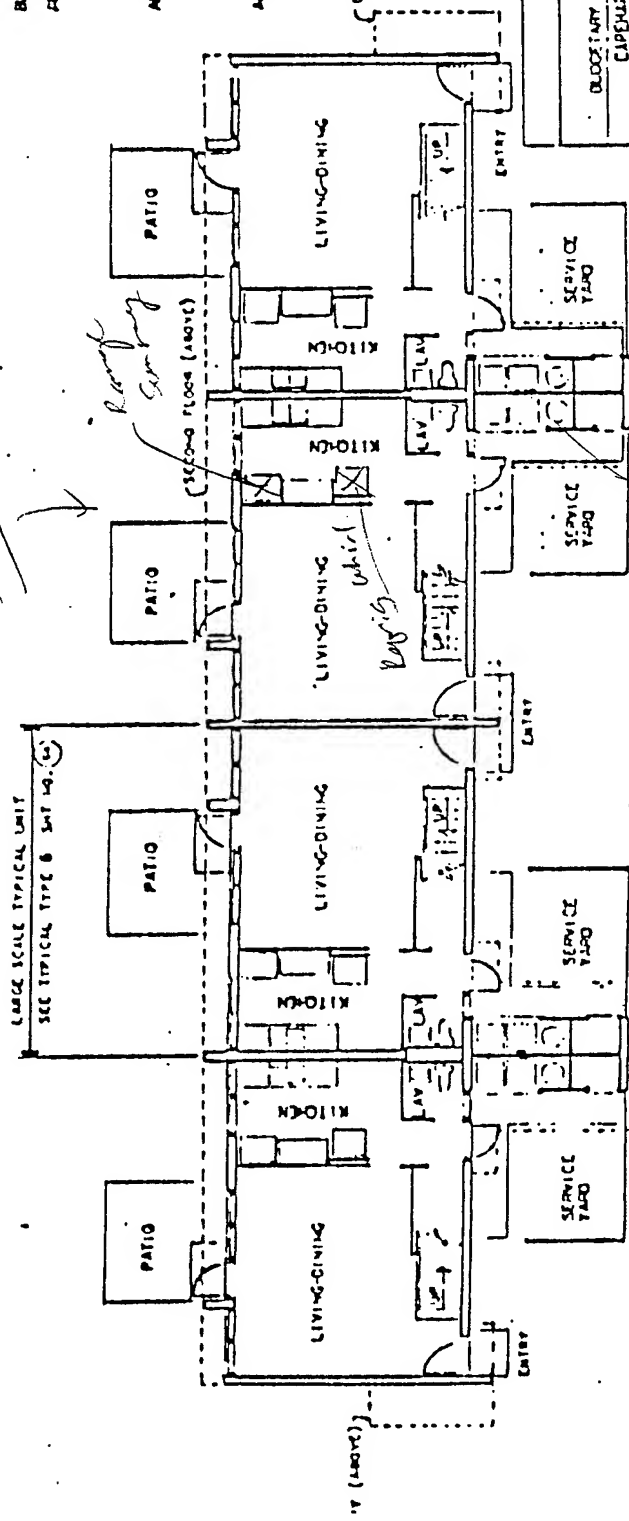
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|------------|
| Kit. SK | 12/100 | 120 | |
| Shower | 12/100 | 120 | reg. head. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3935B



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

Type 60-I

BUILDING NUMBERS
AREA X-1 3917, 3929, 3934, 3935
3941.
SEE SITE PLAN SHEET 67 FOR
LOCATION
AREA Y 1301, 1310, 1323, 1335
1343, 1347, 1350
SEE SITE PLAN SHEET 67 FOR
LOCATION
AREA Z 1352
SEE SITE PLAN SHEET 68 FOR
LOCATION

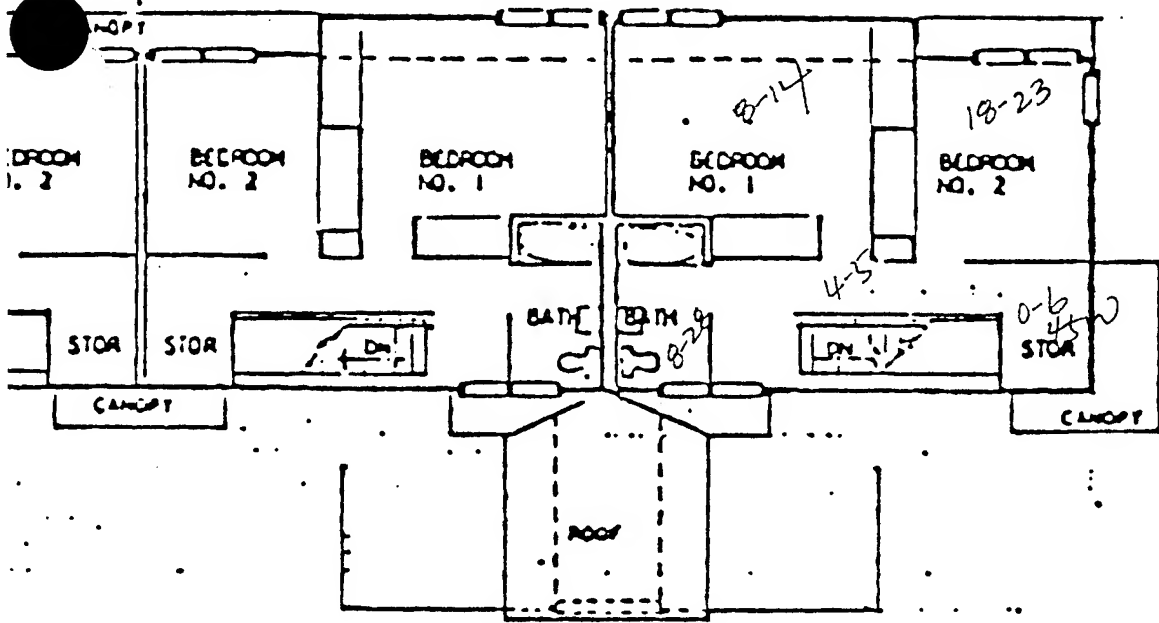
CLOSET (ABOVE)

| REVISIONS | | | | |
|--|----|----|----|----|
| FAMILY HOUSING | | | | |
| BLOOMINGTON DATA FOR AIR CONDITIONING PROJECTS | | | | |
| CAPEHART HOUSING SCHEDULE 1963 TYPES E-I, I-V | | | | |
| FIRST AND SECOND FLOOR PLANS TYPE M | | | | |
| SC-OF-100 BUREAU | | | | |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | | | | |
| COMPS OF ENGINEERS | | | | |
| HONOLULU, HAWAII | | | | |
| LOC. CODE 3499 | 25 | 23 | 07 | 31 |

8" 0' 8" 16"
GRAPHIC SCALE 1/8" = 1'-0"

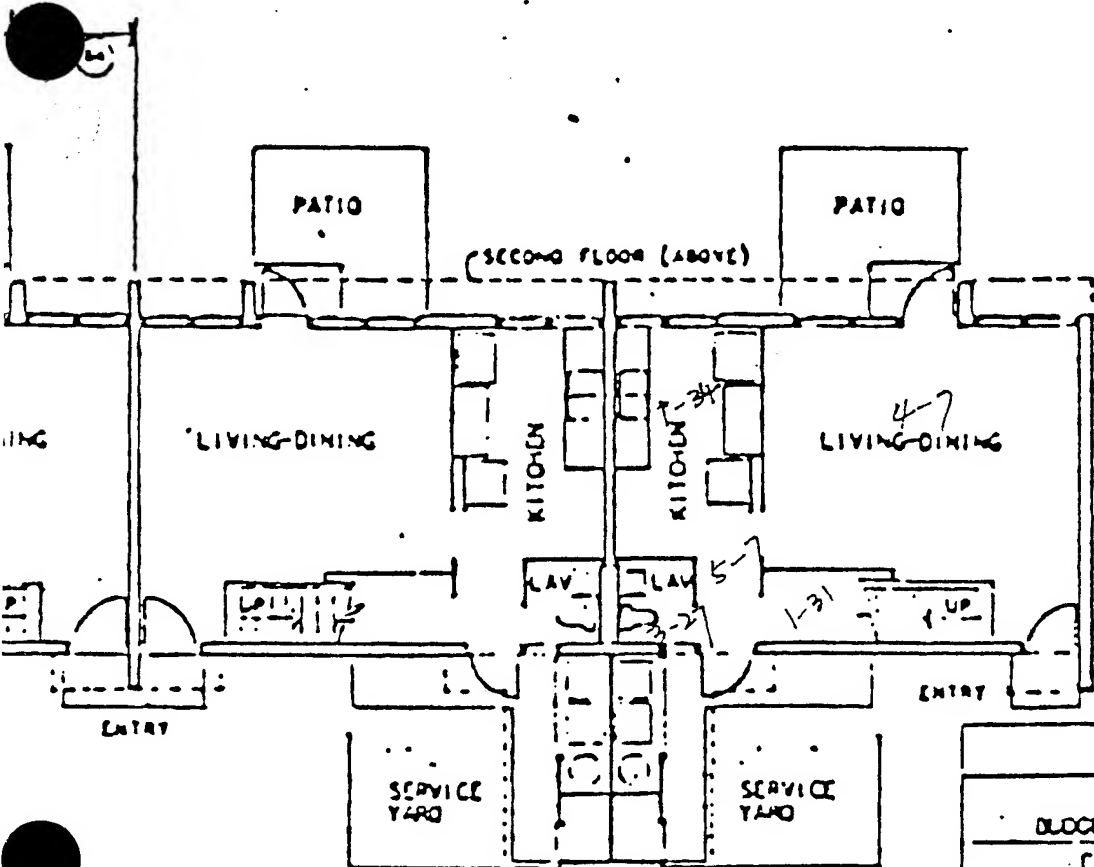
MAY 1973

AT NO. 14



3917 ABCD
 3924 ABCD
 3934 ABED
 3935 A@CD

Type 60-I



BUILDING NUMBERS
 AREA K-1 3917, 3924, 3934, 3941.
 SEE SITE PLAN SHEET () LOCATION
 AREA V 1301, 1310, 1323, 1343, 1347, 1350
 SEE SITE PLAN SHEET () LOCATION
 AREA T 4252
 SEE SITE PLAN SHEET () LOCATION

CANOPY (ABOVE)



| REVISIONS | |
|---|---------|
| FAMILY HOUSING | |
| BLOCCATORY DATA FOR AIR CONDITIONING | |
| CAPEHART HOUSING SCHOFIELD 1963 AREA | |
| FIRST AND SECOND FLOOR PLANS TYPE | |
| SCHOFIELD BARRACKS | DATE, M |
| U. S. ARMY ENGINEER DIVISION, PACIFIC O | |
| CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |

UNIT TYPE 60-II

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3922

Building Type: 60-II

Apartment: C

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 6

Average No. of Showers/Day: 6

Average No. of Laundry Loads/Week: 14

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Reflective Coating

same as 57-III

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

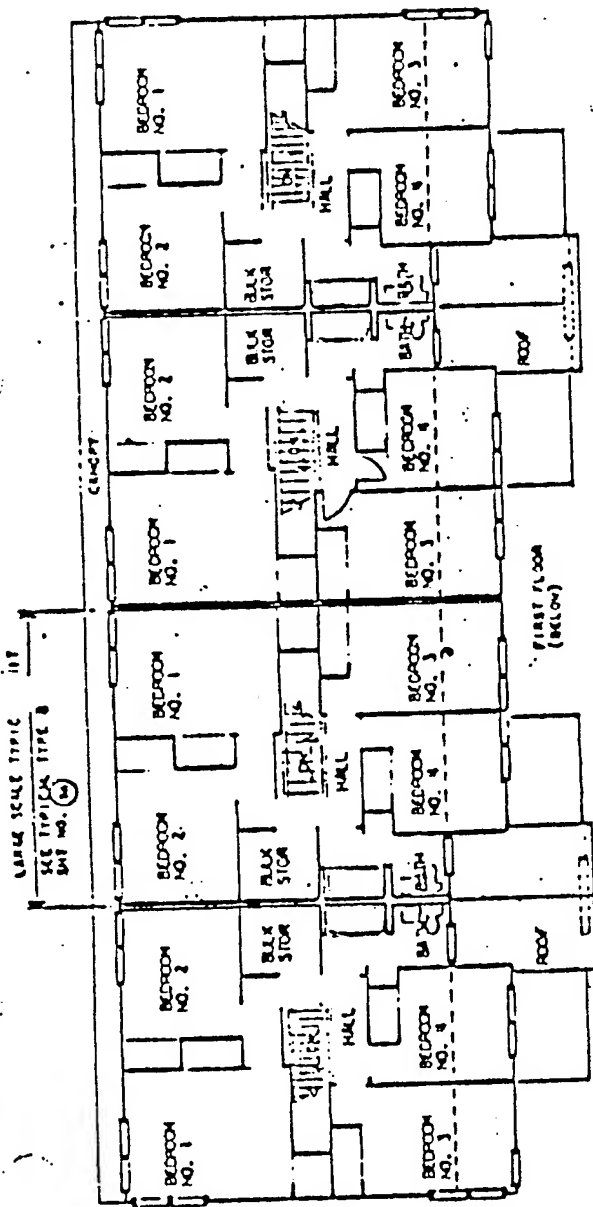
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

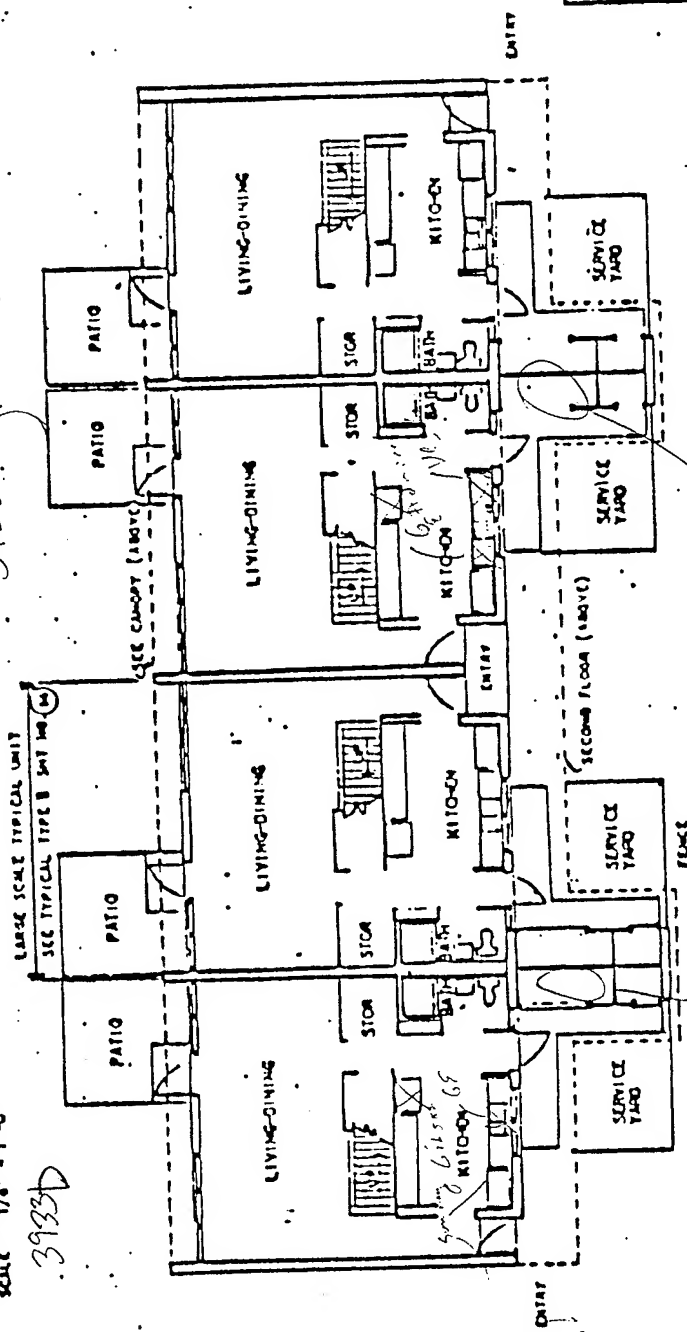
| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| kit sk | 12/125 | 124 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3933D

3922C



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

Same as HP broken

Type 60-II

BUILDING NUMBERS

AREA X-1 3922, 3933, 3936, 3939

SEE SITE PLAN SHEET 67 FOR LOCATION

AREA Y

3920, 3930

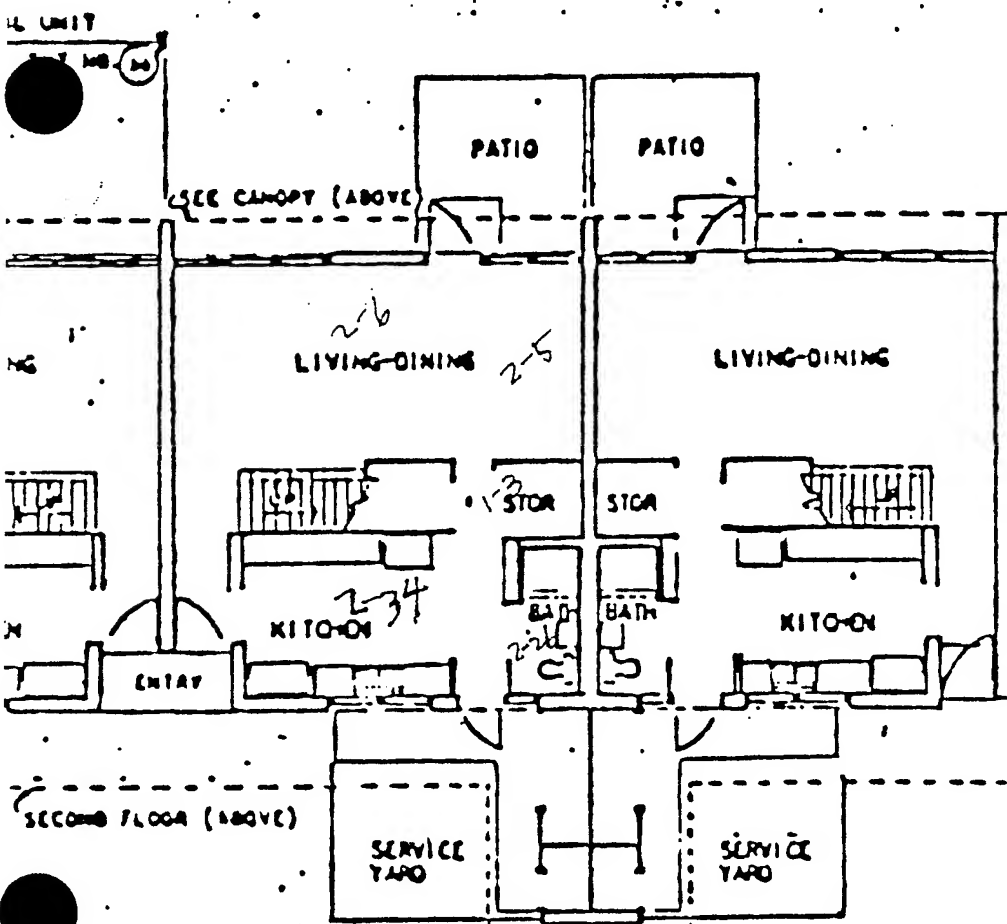
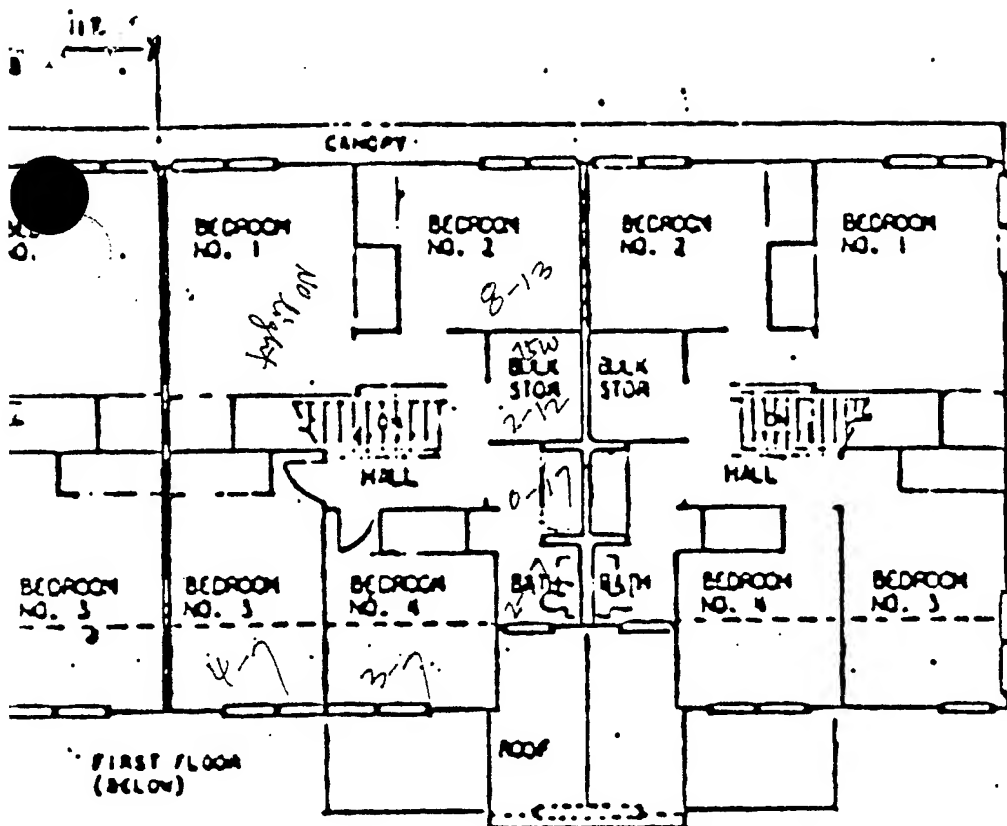
SEE SITE PLAN SHEET 67 FOR LOCATION

AREA V

1302, 1303, 1304, 1313, 1318, 1321, 1331, 1341, 1356

SEE SITE PLAN SHEET 67 FOR LOCATION

| REVISIONS | |
|--|--------------|
| FAMILY HOUSING | |
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CURRENT HOUSING STOCKFIELD 1960 EELS E-1, E-1, V | |
| FIRST AND SECOND FLOOR PLANS | TYPE I |
| STOCKFIELD SERVICES | OSAW, HAWAII |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |
| CORPS OF ENGINEERS | |
| HONOLULU, HAWAII | |
| DATE | 7/1/67 |
| BY | 10 |



3922 ABCD
 3933 ABCD
 3936 ABCD
 3939 ABCD

Type 60-II

BUILDING NUMBERS

AREA K-1 3922, 3933,
 SEE SITE PLAN S-
 AREA T 4240, 4250
 SEE SITE PLAN S-
 AREA V 1302, 1303,
 1318, 1321,
 1356
 SEE SITE PLAN S-

| REVISIONS |
|------------------------------|
| FAMILY HOUSING |
| BUDGETARY DATA FOR AIR CORPS |
| CAPEHART HOUSING SOMERFIELD |
| FIRST AND SECOND FLOOR PLANS |
| SOMERFIELD BARRACKS |
| U. S. ARMY ENGINEER DIVISION |
| CORPS OF ENGINEERS |

0 8' 16'

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3922

Building Type: 600-II

Apartment: AD

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 5

Average No. of Showers/Day: 10

Average No. of Laundry Loads/Week: 14

Average No. of Times Dishwasher Used/Day: not used

Remarks: _____

2.0 ARCHITECTURAL

same as
57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

| Window | Yes | No |
|--------------------|-------------------------------------|-------------------------------------|
| Tinted | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Reflective Coating | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

3.0 HOT WATER SYSTEM

Same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

- a. Is System Supported from (check one):
- _____ Central Plant _____ One System per Building
- _____ Several Small Systems per Building
- _____ Individual EWH/Unit
- b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F
- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:
- _____
- _____
- _____
- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____
- e. Is Hot Water Circulated? _____
- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

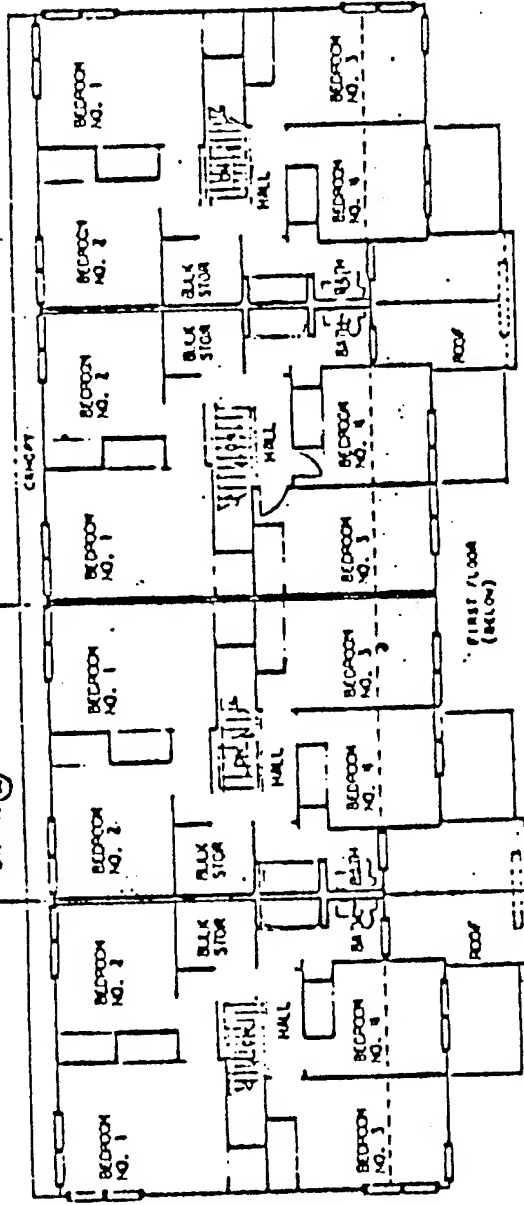
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

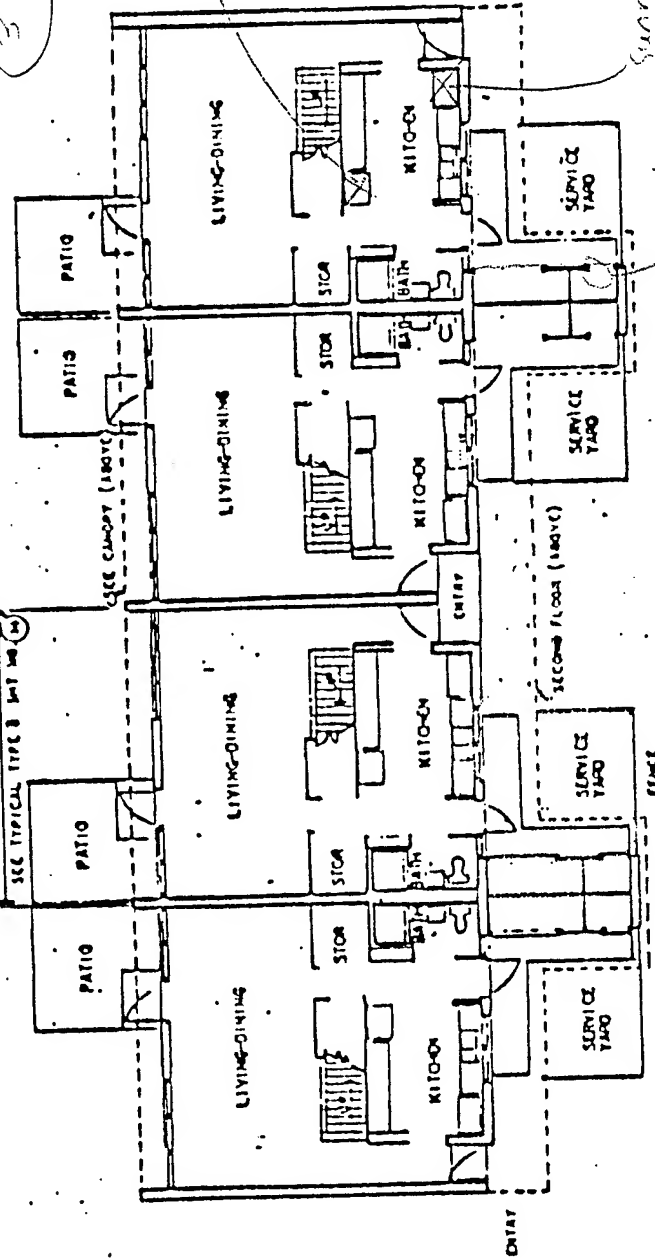
| Fixture | Flow | Water Temp. | Remarks |
|---------|-----------|-------------|---------|
| KIT SK | 2 1/2 gpm | 110 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |

LARGE SCALE TYPIC UNIT
SEE TYPICAL TYPE B
SHEET NO. 14



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE TYPICAL UNIT
SEE TYPICAL TYPE B SHEET NO. 14



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

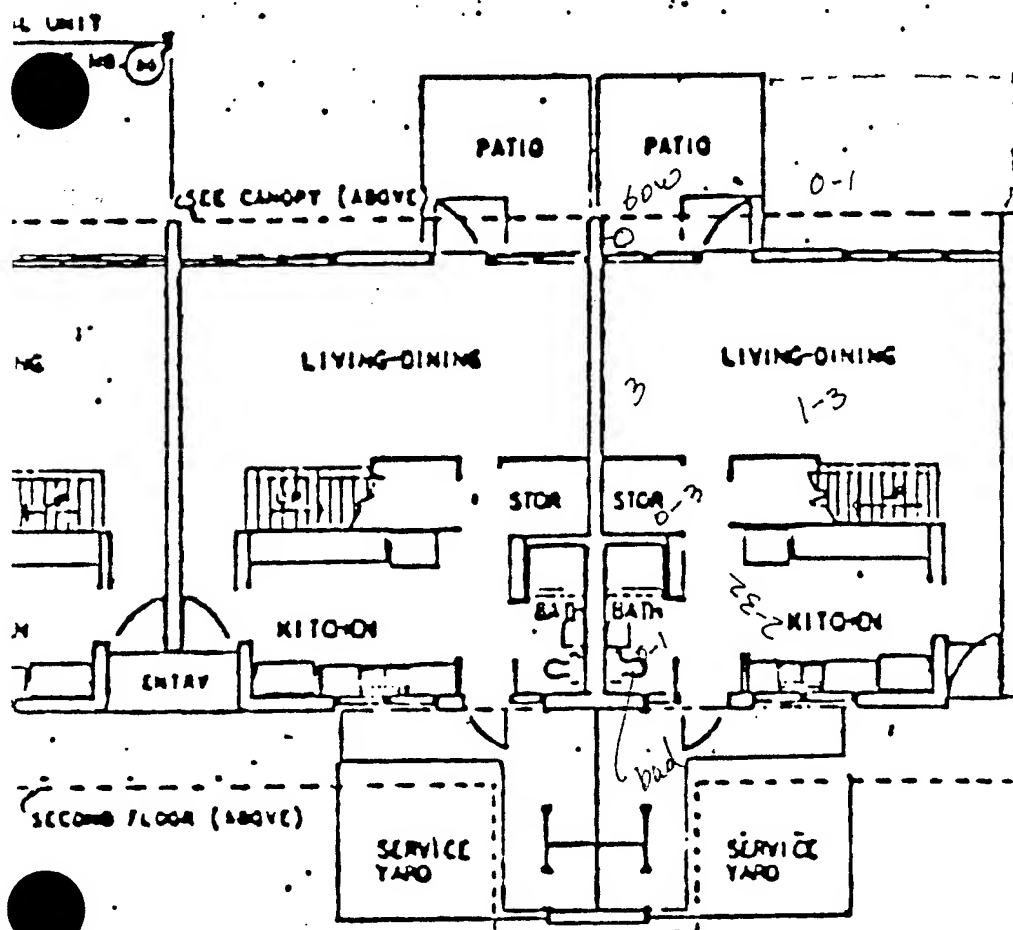
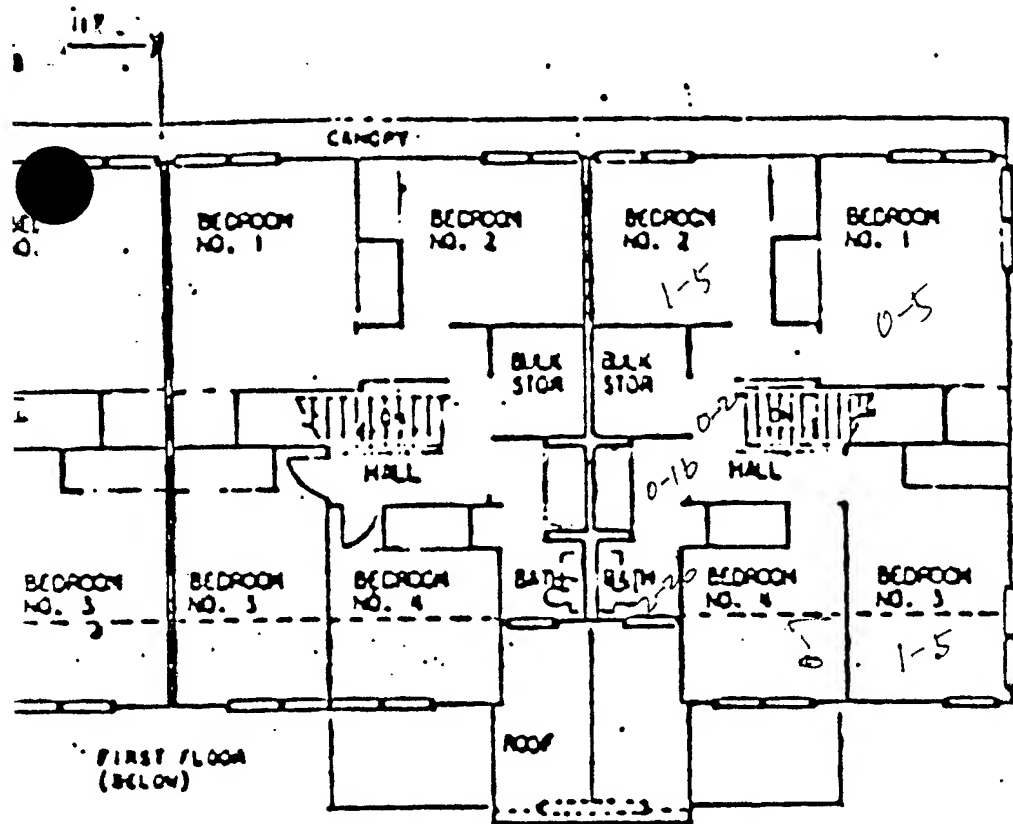
39 22 0

Type 60-II

BUILDING NUMBERS
AREA 4-1 3922, 3933, 3934, 3939
SEE SITE PLAN SHEET 60 FOR LOCATION
AREA 7 4250
SEE SITE PLAN SHEET 60 FOR LOCATION
AREA 9 1302, 1303, 1304, 1313, 1318, 1321, 1331, 1341, 1356
SEE SITE PLAN SHEET 60 FOR LOCATION

| REVISIONS | |
|-----------|--|
| 1 | FAMILY HOUSING |
| 2 | BUDGETARY DATA FOR AIR CONDITIONING PROJECTS |
| 3 | CURRENT HOUSING SCHEDULE 1960 DATES 6-1-1, 1-1-1 |
| 4 | FIRST AND SECOND FLOOR PLANS TYPE I |
| 5 | SOFTFIELD BUILDINGS |
| 6 | 04-1, 04-11 |
| 7 | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN |
| 8 | CORPS OF ENGINEERS |
| 9 | HONOLULU, HAWAII |
| 10 | 75 1 23 1 07 |
| 11 | 947 |
| 12 | 12 |





3922 ABCD
 3933 ABCD
 3936 ABCD
 3939 ABCD

Type 60-II

BUILDING NUMBERS

AREA X-1 3922, 3933,
 SEE SITE PLAN 9
 AREA T 4240, 4250
 SEE SITE PLAN 9
 AREA V 1302, 1303,
 1318, 1321,
 1356
 SEE SITE PLAN 9

| REVISIONS |
|-------------------------------|
| FAMILY HOUSING |
| BUDGETARY DATA FOR AIR CONDIT |
| CAPEHART HOUSING SOMERFIELD |
| FIRST AND SECOND FLOOR PL |
| SOMERFIELD BARRACKS |
| U. S. ARMY ENGINEER DIVISION |
| CORPS OF ENGINE |

0 8' 16'

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3933
Building Type: 60-II
Apartment: B
No. Bedrooms: 4
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: all
No. of Occupants: 3
Average No. of Showers/Day: 4
Average No. of Laundry Loads/Week: 20
Average No. of Times Dishwasher Used/Day: not used
Remarks: _____

2.0 ARCHITECTURAL

Same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

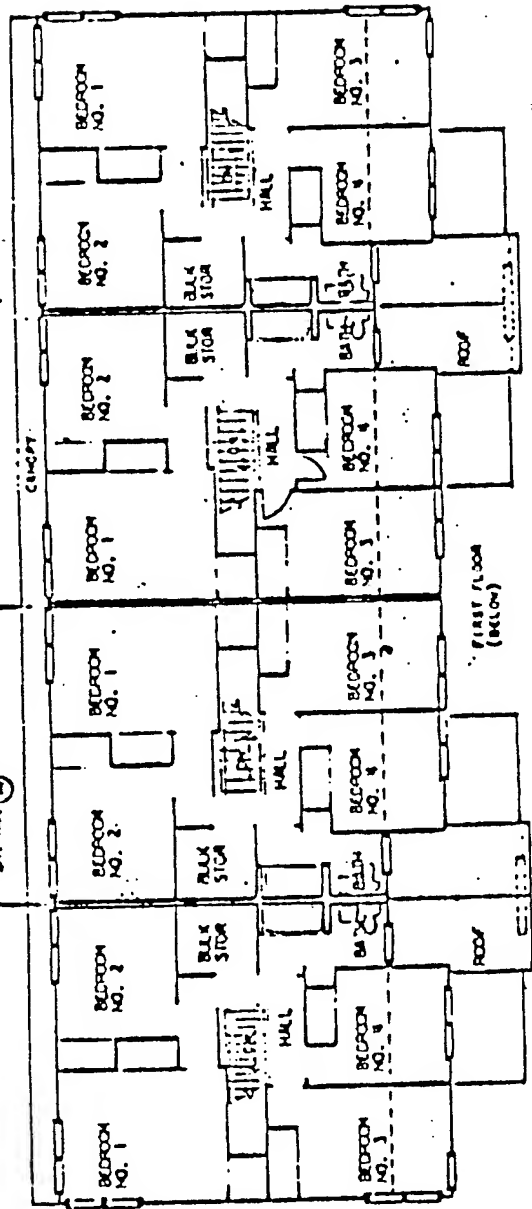
b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|--------------|-------------|-------------|---------|
| Kit SK | 1 1/2 / 105 | 116 | |
| (up)
SHUR | 2 1/2 / 105 | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

LARGE SCALE TYPICAL UNIT
SEE TYPICAL TYPE B
SHEET NO. 10

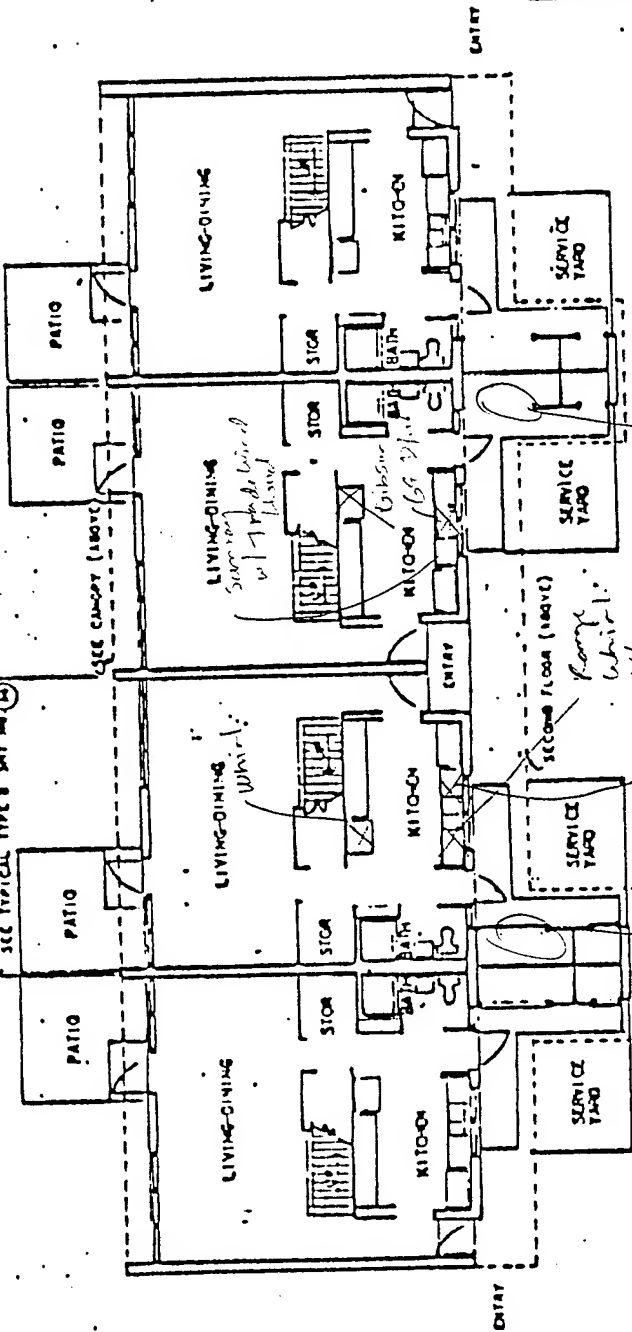


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3933 C

3933 B

LARGE SCALE TYPICAL UNIT
SEE TYPICAL TYPE B SHEET NO. 10



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

0' 0" 8' 16'

Type 60-II

BUILDING NUMBERS

AREA A-1 3922, 3933, 3934, 3939

SEE SITE PLAN SHEET 6 FOR LOCATION

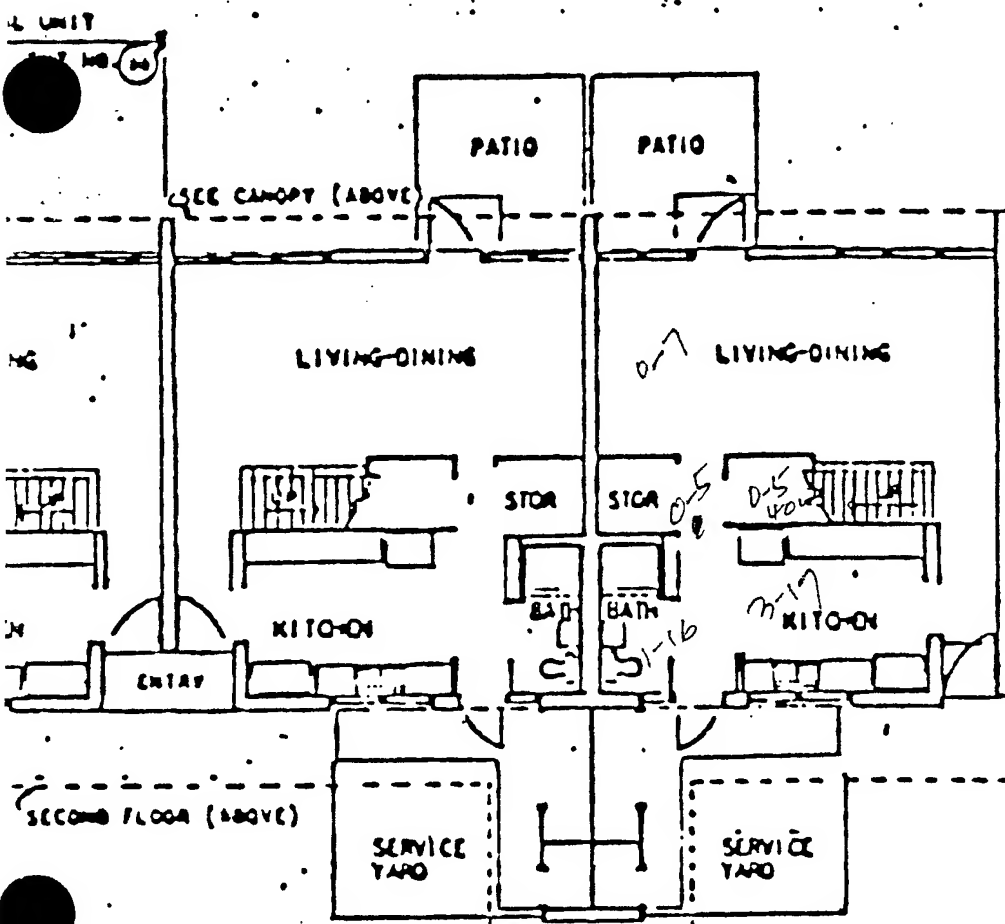
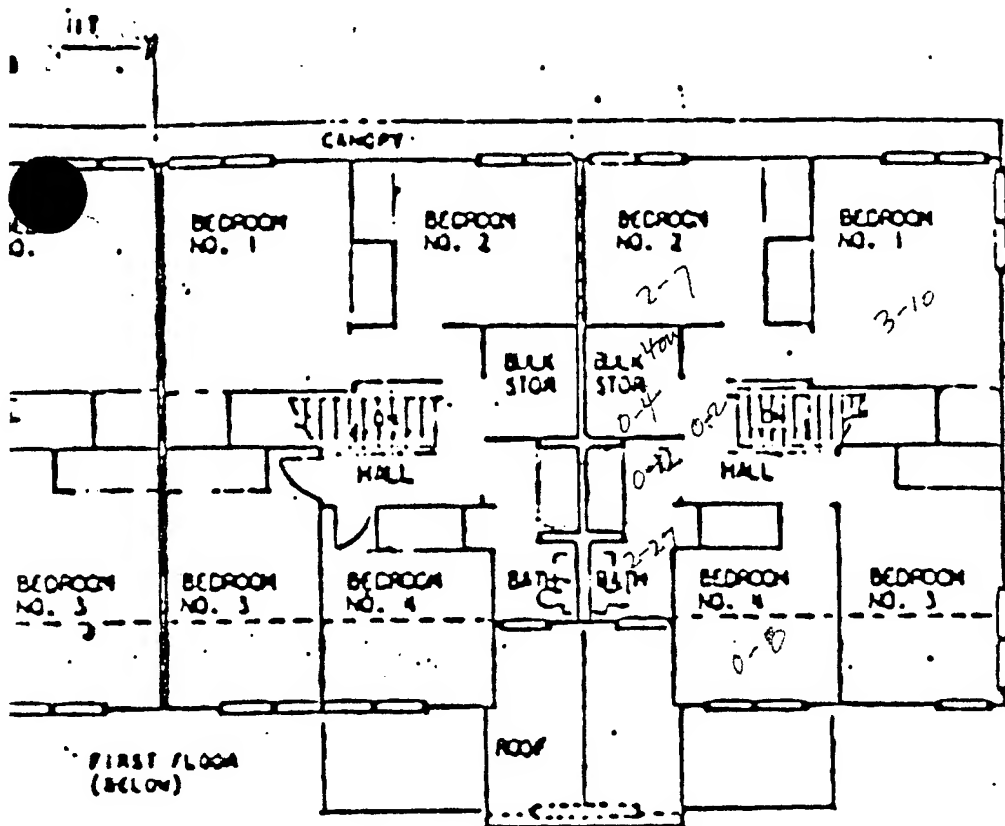
AREA T 4250

SEE SITE PLAN SHEET 6 FOR LOCATION

AREA V 1302, 1303, 1304, 1313, 1318, 1321, 1331, 1341, 1354

SEE SITE PLAN SHEET 6 FOR LOCATION

| REVISIONS | |
|-----------|---|
| 1 | FAMILY HOUSING |
| 2 | BIOGRAPHY DATA FOR AIR CONDITIONING PROJECTS |
| 3 | CURRENT HOUSING SCHEDULE 1963 LOCAL E-1, T-1, V |
| 4 | FIRST AND SECOND FLOOR PLANS TYPE I |
| 5 | SCHIFFEL BUILDINGS |
| 6 | CHANG, HANSHI |
| 7 | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN |
| 8 | COMPS OF ENGINEERS |
| 9 | HONOLULU, HAWAII |
| 10 | 25 1 23 1 27 28 29 |



3922 ABCD
 3933 ABCD
 3936 ABCD
 3939 ABCD

Type 60-II

BUILDING NUMBERS
 AREA X-1 3922, 3933,
 SEE SITE PLAN 9
 AREA Y 4240, 4250
 SEE SITE PLAN 9
 AREA V 1302, 1303,
 1318, 1321,
 1356
 SEE SITE PLAN 9

| REVISIONS |
|------------------------------|
| FAMILY HOUSING |
| BUDGETARY DATA FOR AIR COND |
| CAPEHART HOUSING SCOTFIELD |
| FIRST AND SECOND FLOOR PL |
| SCOTFIELD BARRACKS |
| U. S. ARMY ENGINEER DIVISION |
| CORPS OF ENGINE |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3933

Building Type: 60-II

Apartment: C

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 5

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 15

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No

Tinted

Reflective Coating

3.0 HOT WATER SYSTEM

same as 57-III

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building

 Several Small Systems per Building

 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

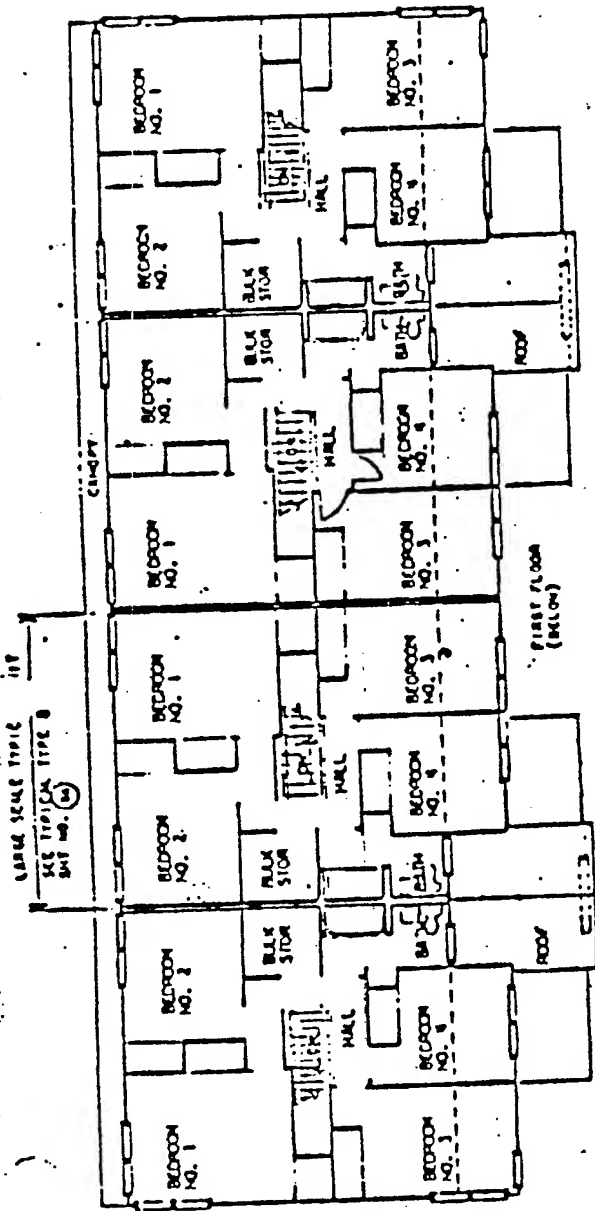
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|------------------|----------|-------------|---------|
| Kit SK | 1.5ℓ/10s | 120 | |
| UPSTAIRS
SHWR | 3.5ℓ/10s | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

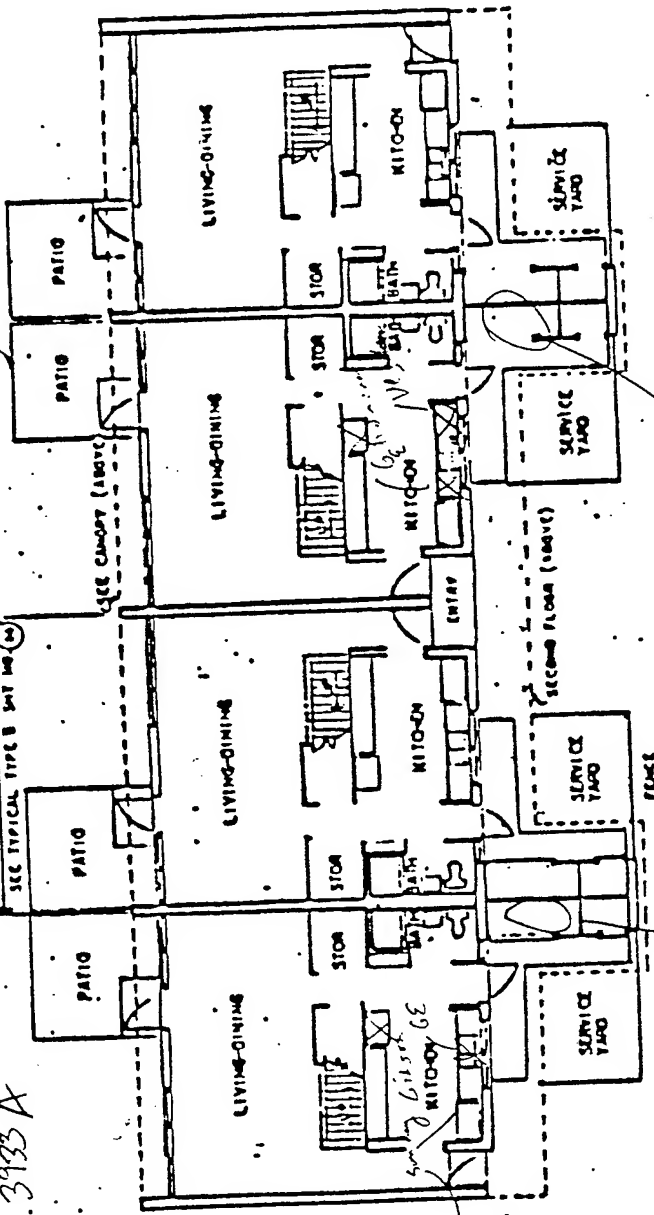


SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3933 A

3922 C

LARGE SCALE TYPICAL UNIT
SEE TYPICAL TYPE B UNIT NO. 10



ENCLOSURE
1/8" = 1'-0"

Save w/ HP
w/ HP
broken

Type 60-II

BUILDING NUMBERS

AREA B-1 3922, 3931, 3936, 3939

SEE SITE PLAN SHEET 10 FOR LOCATION

AREA T 4250, 4250

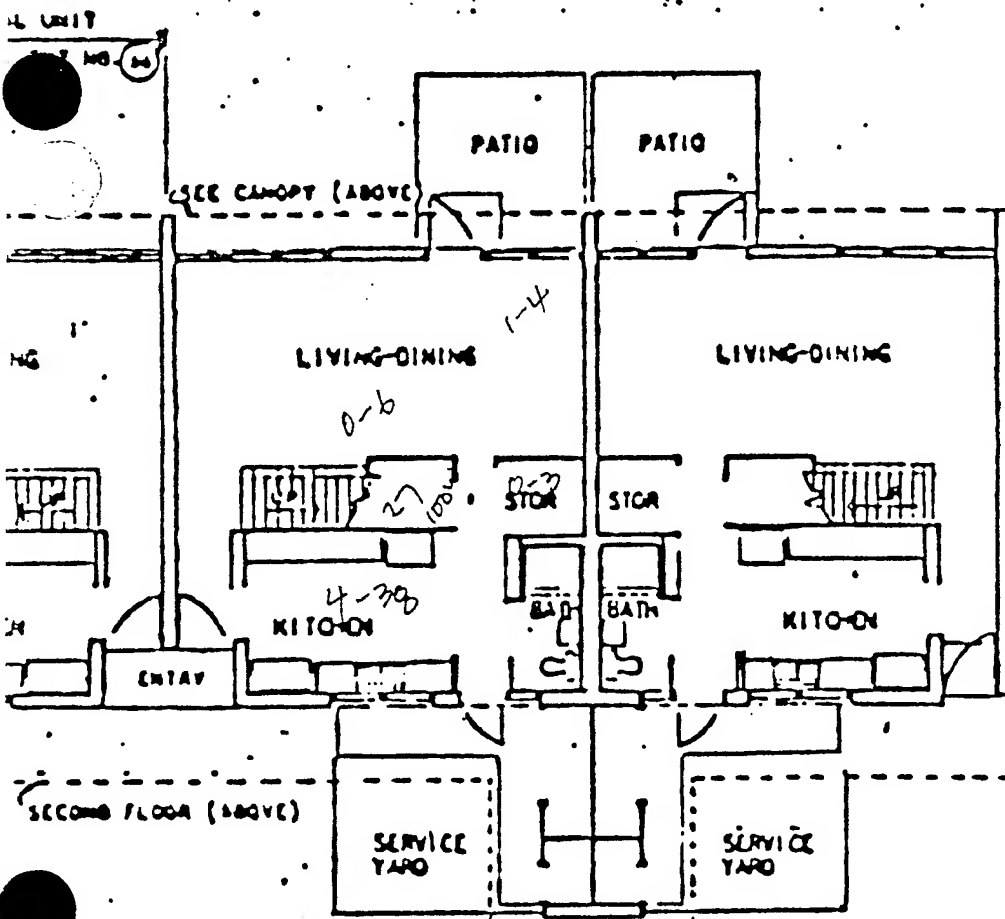
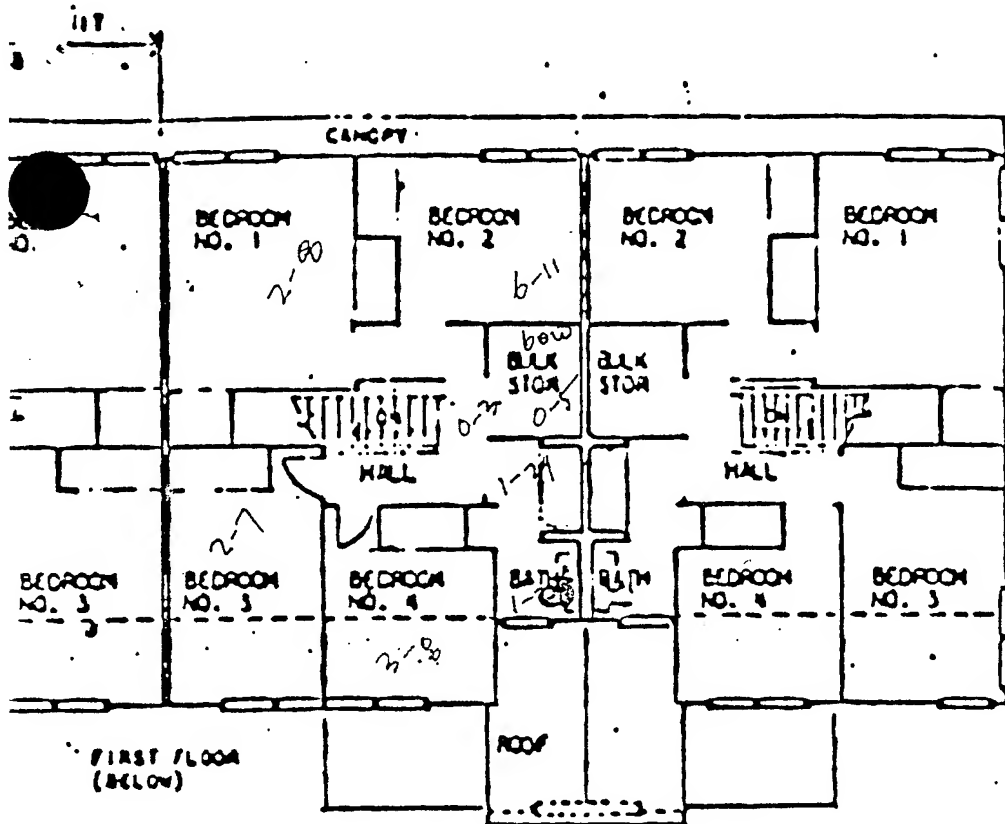
SEE SITE PLAN SHEET 10 FOR LOCATION

AREA V 1302, 1303, 1306, 1313

1318, 1321, 1331, 1341

SEE SITE PLAN SHEET 10 FOR LOCATION

| REVISIONS | |
|-----------|--|
| 1 | FAMILY HOUSING |
| 2 | BUDGETARY DATA FOR AIR CONDITIONING PROJECTS |
| 3 | CAPEHART HOUSING DEVELOPED 1963 DESIGNS E-1, E-2 |
| 4 | FIRST AND SECOND FLOOR PLANS TYPE I |
| 5 | SCOUTFIELD BARBERS |
| 6 | DAVID, HAWAII |
| 7 | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN |
| 8 | COMPS OF ENGINEERS |
| 9 | HONOLULU, HAWAII |
| 10 | LOC. 0306, 0309 |
| 11 | 28 |
| 12 | 21 |
| 13 | 07 |
| 14 | 01 |
| 15 | 32 |



3922 ABCD
 3933 ABCD
 3936 ABCD
 3939 ABCD

Type 60-II

BUILDING NUMBERS

AREA X-1 3922, 3933,
 SEE SITE PLAN 9
 AREA Y 4240, 4250
 SEE SITE PLAN 9
 AREA V 1302, 1303,
 1318, 1321,
 1356
 SEE SITE PLAN 9

| REVISIONS |
|---|
| FAMILY HOUSING
BUDGETARY DATA FOR AIR COND |
| CAPEHART HOUSING SCHOFIELD
FIRST AND SECOND FLOOR PL |
| SCHOFIELD BARRACKS |
| U. S. ARMY ENGINEER DIVISION
CORPS OF ENGINE |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3933
Building Type: 60-II
Apartment: AD
No. Bedrooms: 4
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: all
No. of Occupants: 5
Average No. of Showers/Day: 3
Average No. of Laundry Loads/Week: 10
Average No. of Times Dishwasher Used/Day: 1
Remarks: _____

2.0 ARCHITECTURAL

same as 57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

Same as 57-III

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

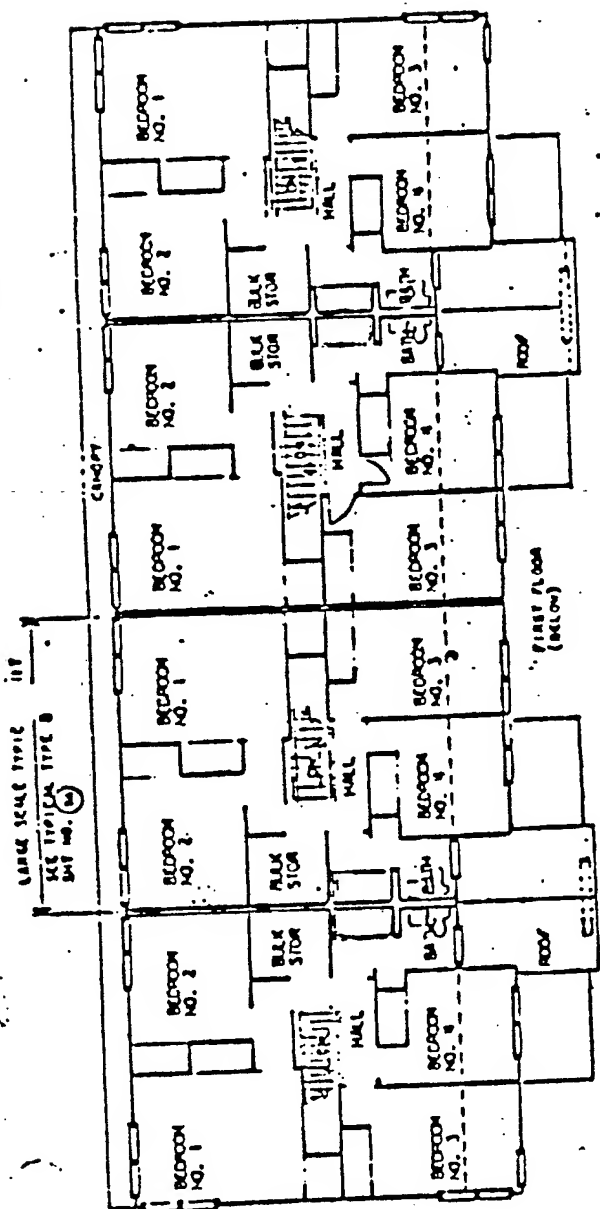
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

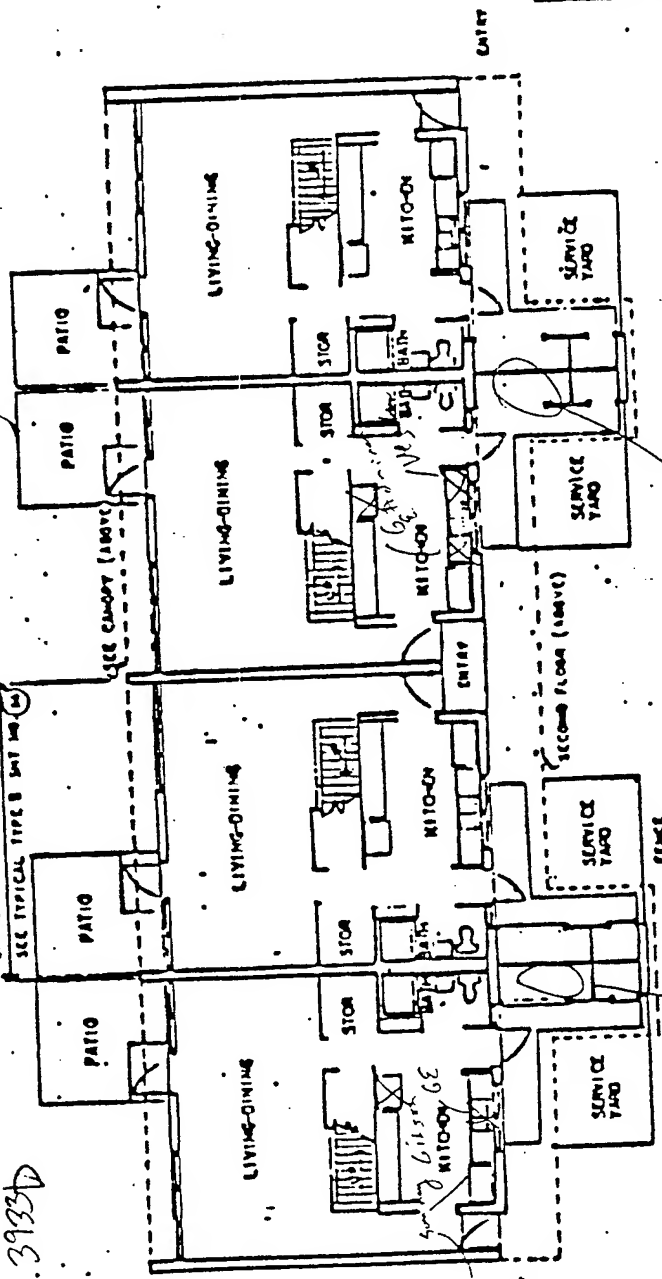
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|------------------------|--------|-------------|---------|
| Kit. SK | 12/105 | 122 F | |
| ^{7N}
CShwr | 12/105 | 120 F | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

LARGE SCALE TYPICAL UNIT
SEE TYPICAL TYPE B UNIT NO. (A)



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

Type 60-II

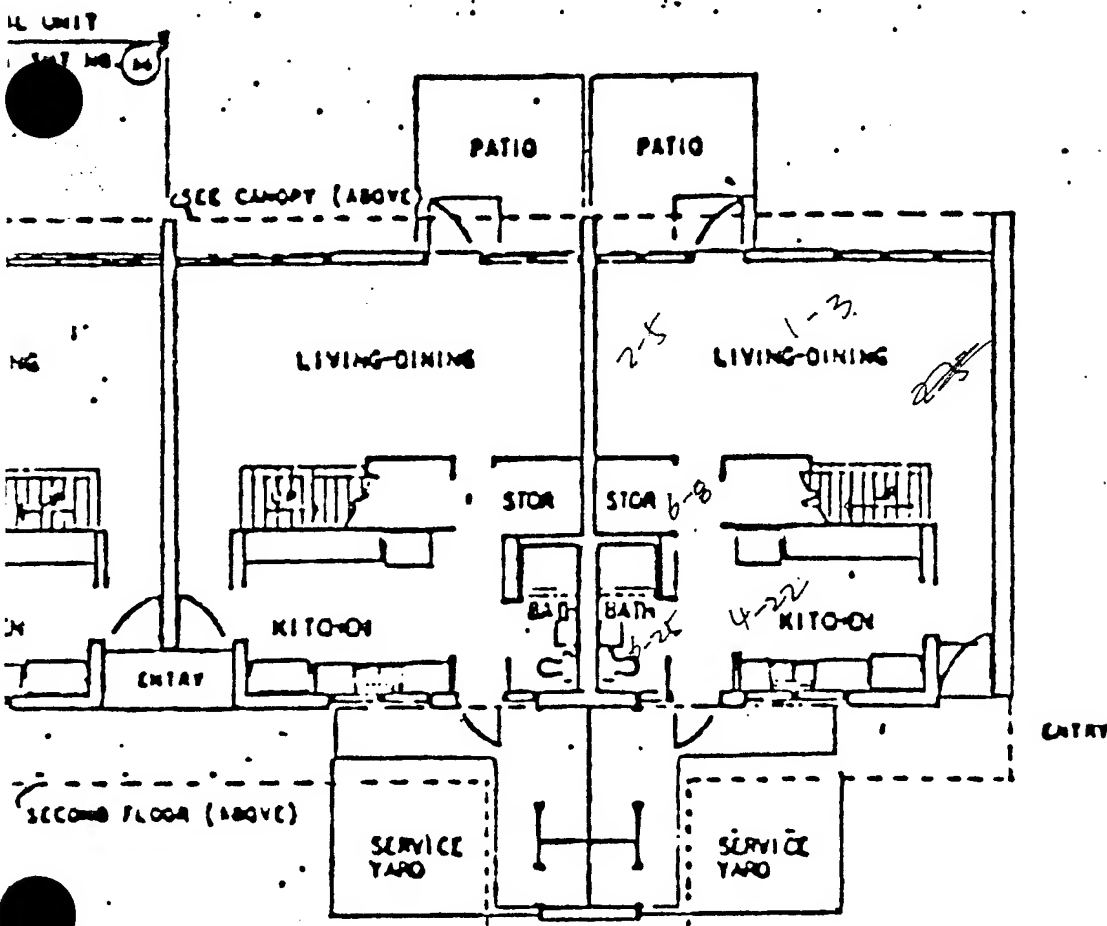
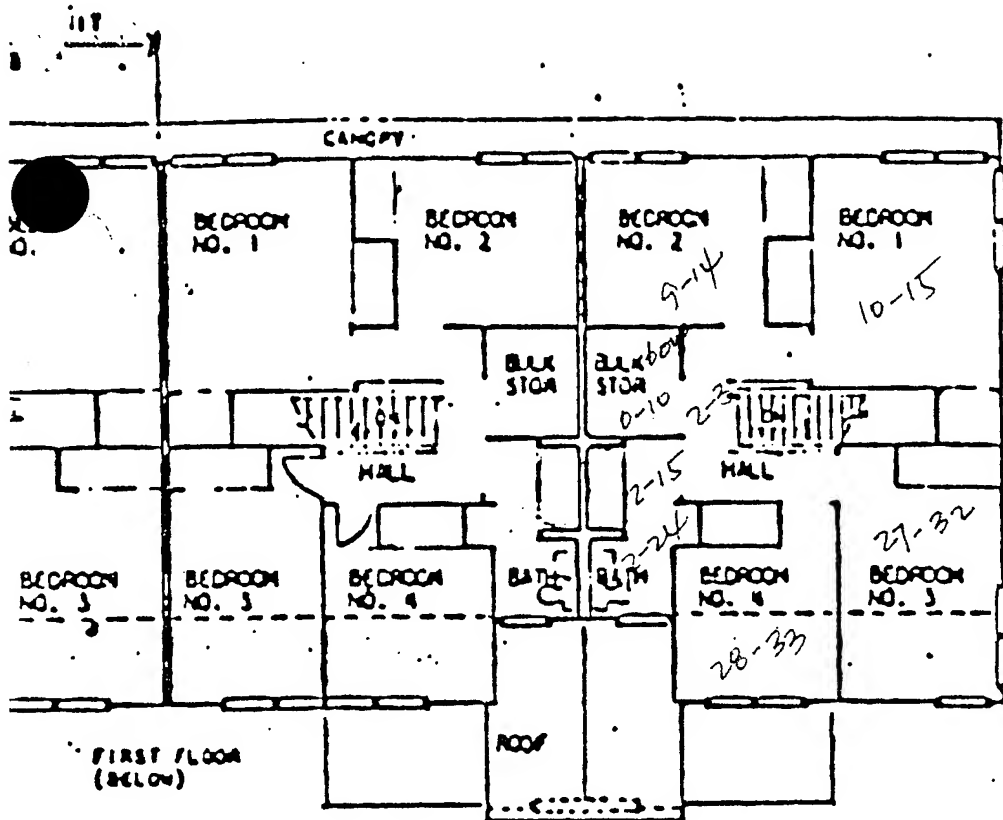
BUILDING NUMBERS
AREA K-1 3922, 3933, 3934, 3939
SEE SITE PLAN 3-LET 60 FOR LOCATION

AREA T 4240, 4250
SEE SITE PLAN 3-LET 60 FOR LOCATION

AREA V 1302, 1303, 1304, 1313
1316, 1321, 1331, 1341
1356
SEE SITE PLAN 3-LET 60 FOR LOCATION

| REVISIONS | |
|-----------|--|
| 1 | FAMILY HOUSING |
| 2 | BUDGETARY DATA FOR AIR CONDITIONING PROJECTS |
| 3 | CAPEHART HOUSING PROJECTS 1963 LOCAL E-1, E-2, E-3 |
| 4 | FIRST AND SECOND FLOOR PLANS TYPE I |
| 5 | SOMERFIELD BARBERS |
| 6 | ARMY, HAWAII |
| 7 | U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN |
| 8 | COMP. OF ENGINEERS |
| 9 | HONOLULU, HAWAII |
| 10 | USE CODE, 3746 |
| 11 | 75 |
| 12 | 23 |
| 13 | 27 |
| 14 | 28 |

Scale
1/8" = 1'-0"



3922 ABCD
 3933 ABCD
 3936 ABCD
 3939 ABCD

Type 60-II

BUILDING NUMBERS

AREA K-1 3922, 3933,
 SEE SITE PLAN S
 AREA T 4240, 4250
 SEE SITE PLAN S
 AREA V 1302, 1303,
 1318, 1321,
 1356
 SEE SITE PLAN S

| REVISIONS |
|-------------------------------|
| FAMILY HOUSING |
| BUDGETARY DATA FOR AIR CONDIT |
| CAPEHART HOUSING SOMERFIELD |
| FIRST AND SECOND FLOOR PL |
| SOMERFIELD BARRACKS |
| U. S. ARMY ENGINEER DIVISION |
| CORPS OF ENGINE |

0 8' 16'

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3739

Building Type: 60-II

Apartment: C

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: 8

No. of Occupants: 5

Average No. of Showers/Day: 10

Average No. of Laundry Loads/Week: 14

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

57-III

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Yes No

Tinted

Reflective Coating ✓

came as ~~60-I~~ 57-III

Came as ~~60 = 1~~

- a. Is System Supported from (check one):

 Central Plant One System per Building

Several Small Systems per Building

 Individual EWH/Unit

- b. Domestic Hot Water Temperatures provided: _____ °F

- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

- e. Is Hot Water Circulated?

- 1) Condition of circular _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
- 1) Storage _____
- 2) Instantaneous _____
- 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

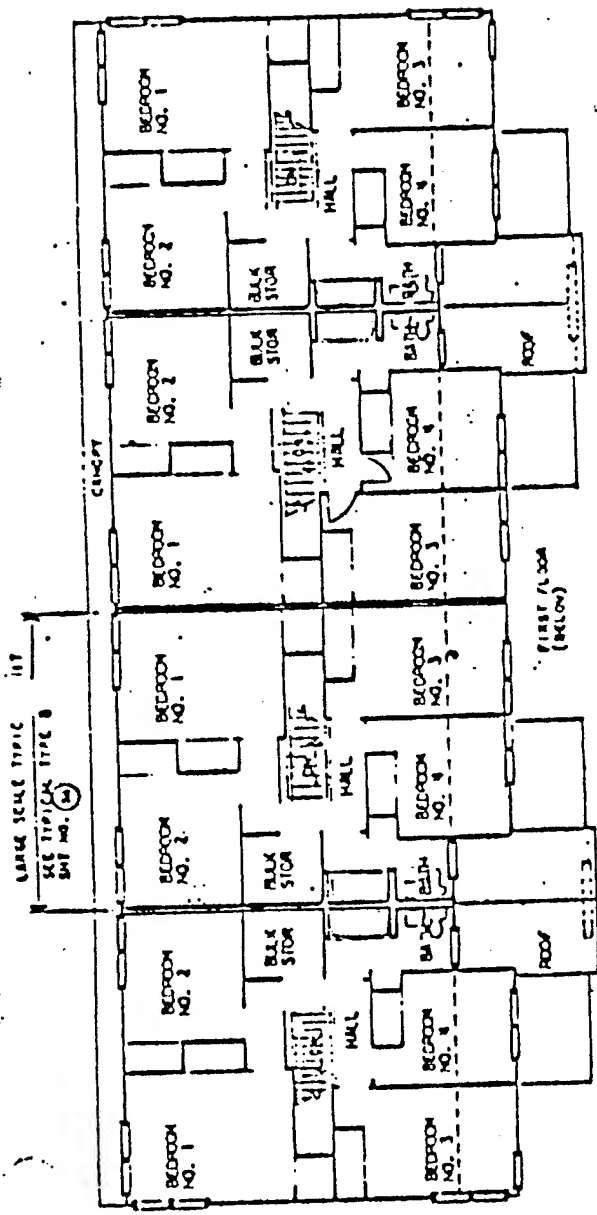
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

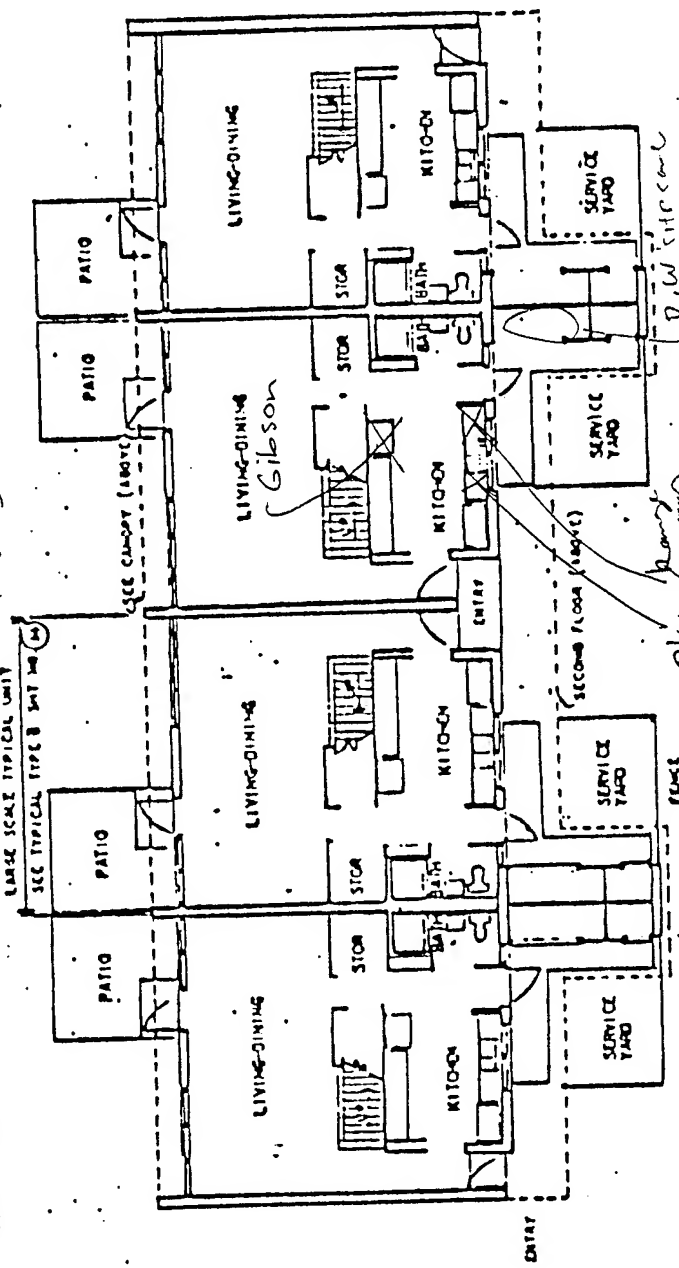
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------|--------|-------------|---------|
| Kit. Sk | 22/105 | 118 | |
| Shwr (down) | 12/105 | 110 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



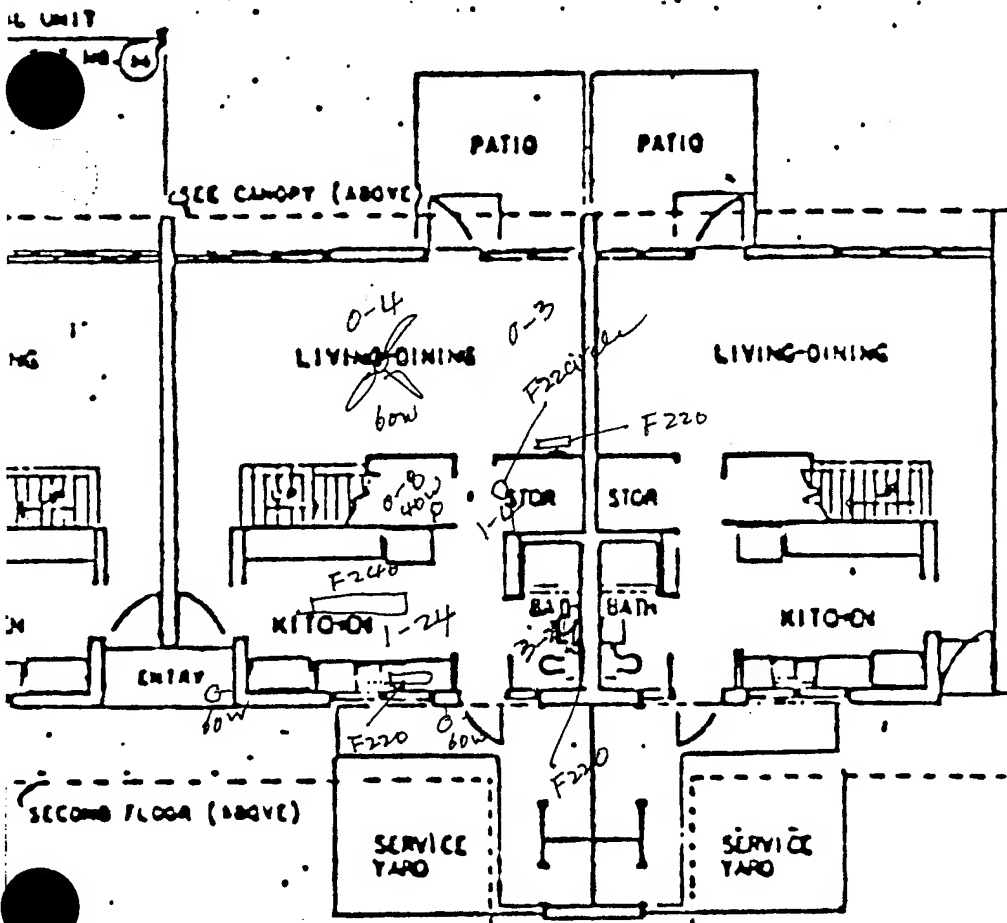
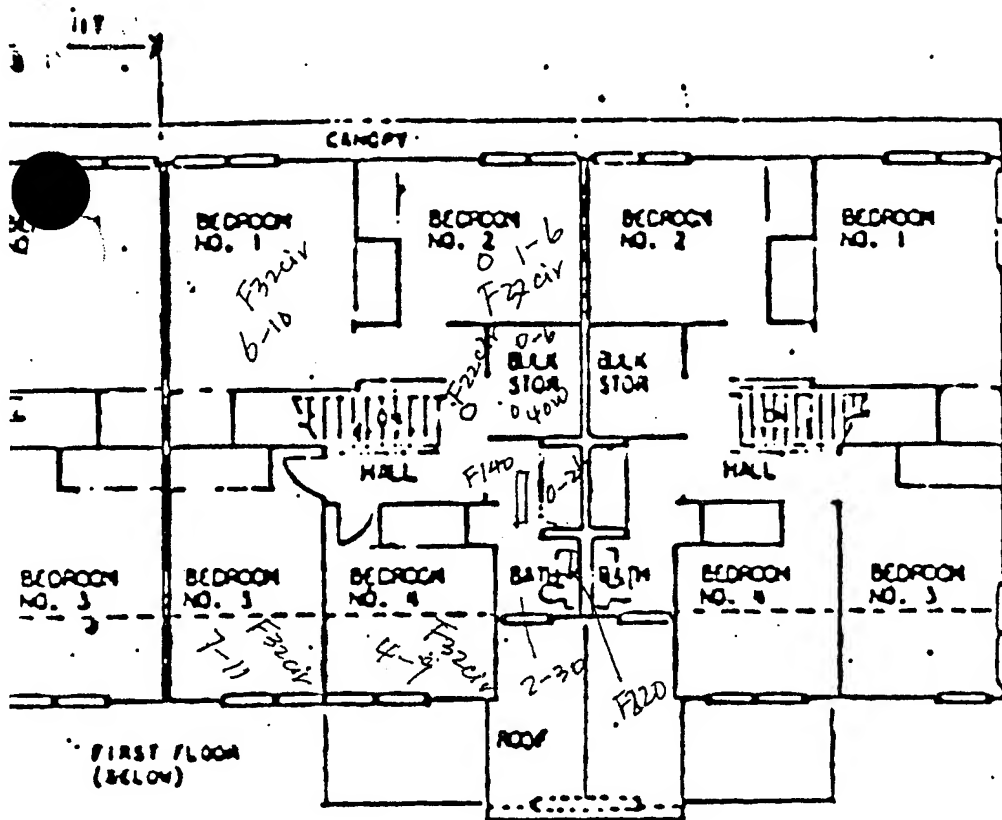
3939C



Type 60-II

BUILDING NUMBERS
AREA K-1 3922, 3933, 3936, 3939
SEE SITE PLAN SHEET 69 FOR LOCATION
AREA T 4250, 4250
SEE SITE PLAN SHEET 69 FOR LOCATION
AREA V 1302, 1303, 1306, 1313
1318, 1321, 1331, 1341
1356
SEE SITE PLAN SHEET 69 FOR LOCATION

| REVISIONS | |
|---|---------------|
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | |
| CAPUTAL HOUSING SOUTHEAST 1950 AREA K-1, T-1, V | |
| FIRST AND SECOND FLOOR PLANS TYPE I | |
| SOUTHWEST BARRACKS | BRAND, MURKIN |
| U. S. ARMY ENGINEER DIVISION, PACIFIC OCEAN | |
| CORPS OF ENGINEERS | |
| MOBILE, ALABAMA | |
| DATE 25: 23: 67 | SHT. 22 |



3922 ABCD
 3933 ABCD
 3936 ABCD
 3939 ABCD

Type 60-II

BUILDING NUMBERS

AREA K-1 3922, 3933,
 SEE SITE PLAN 5
 AREA T 4240, 4250
 SEE SITE PLAN 5
 AREA V 1302, 1303,
 1318, 1321,
 1356
 SEE SITE PLAN 5

| REVISIONS |
|------------------------------|
| FAMILY HOUSING |
| BUDGETARY DATA FOR AIR COND |
| CAPEHART HOUSING SOMERFIELD |
| FIRST AND SECOND FLOOR PL |
| SOMERFIELD BARRACKS |
| U. S. ARMY ENGINEER DIVISION |
| CORPS OF ENGINE |

8' 4' 0' 8' 16'

UNIT TYPE 60-III

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3918

Building Type: 60-111

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 5 pm

No. of Occupants: 4

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 8

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

same as
57-III

Reflective Coating

same as 57-111

f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

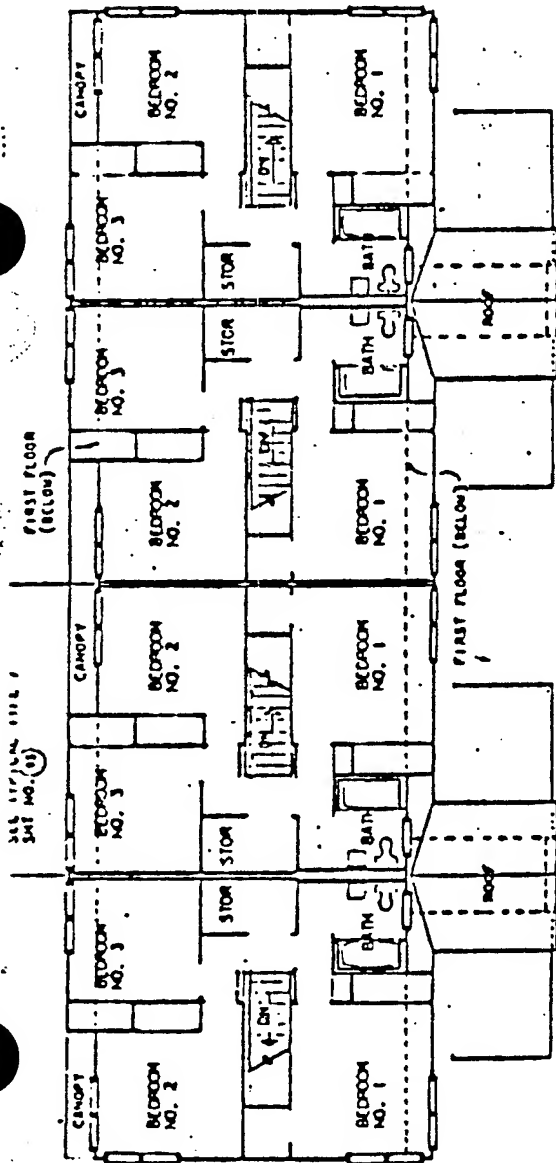
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

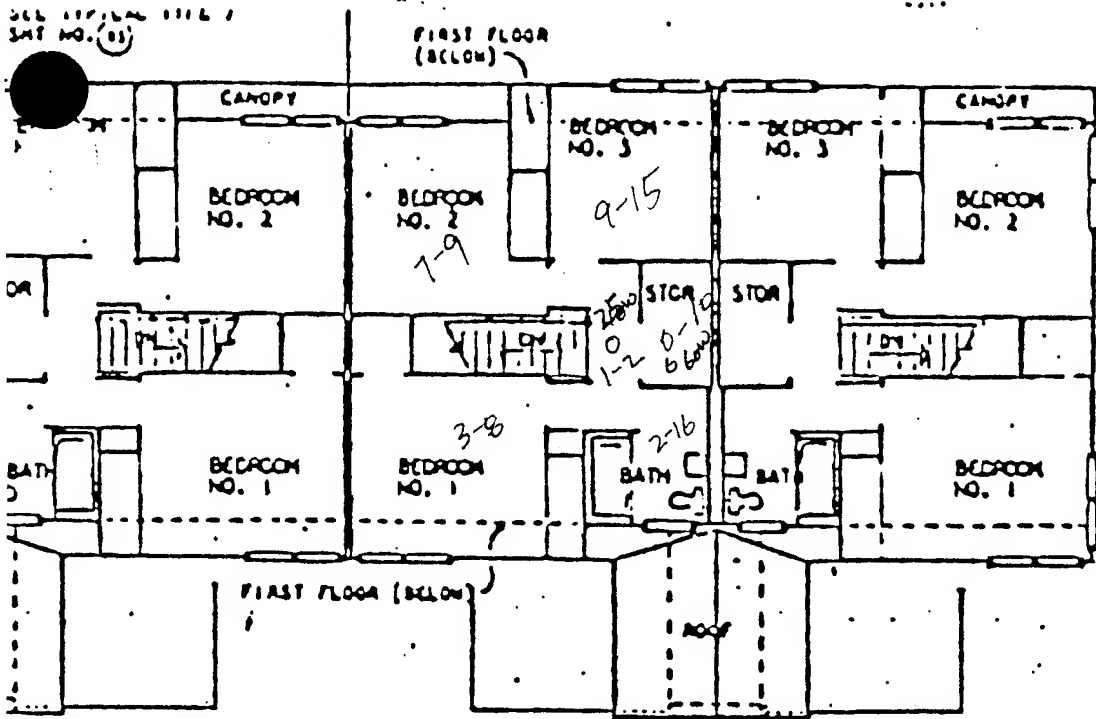
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------|--------|-------------|------------|
| Kit SK | 22/105 | 102 | doing wash |
| Shur (4) | 12/105 | 102 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SEE TYPICAL TYPE 7
SMT NO. (81)



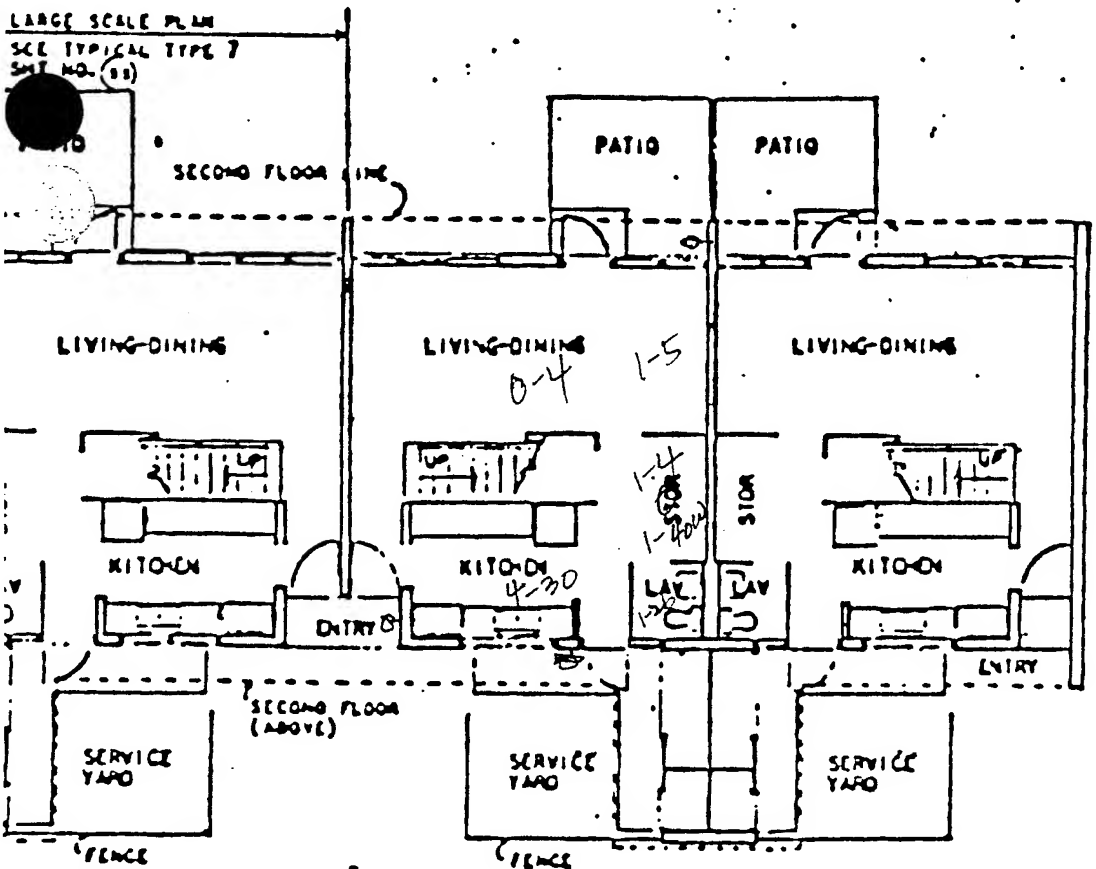
Type 60-I

BUILDING NUMBERS

| | | |
|----------|------|------|
| AREA K-1 | 3918 | 3919 |
| | 3920 | 3921 |
| | 3922 | 3923 |
| | 3924 | 3925 |
| AREA T | 4234 | 4235 |
| | 4236 | 4237 |
| AREA V | 1304 | 1305 |
| | 1311 | 1312 |
| | 1317 | 1318 |
| | 1325 | 1326 |
| | 1333 | 1334 |
| | 1344 | 1345 |
| | 1351 | 1352 |
| | 1362 | 1363 |
| | 1372 | |

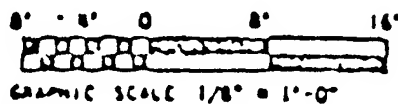
SEE SITE PLAN
FOR LOCATION

LARGE SCALE PLAN
SEE TYPICAL TYPE 7
SMT NO. (81)



TYPE 60-II

3918 ABCD
3919 ABCD
3920 ABCD
3921 ABCD



| | |
|------------------------|----|
| REVIS | |
| FAMILY H | |
| BUDGETARY DATA FOR AIR | |
| CAPWART HOUSING SDC | |
| FIRST AND SECOND FLO | |
| SHOWFIELD BARRACKS | |
| U. S. ARMY ENGINEER, O | |
| CORPS OF I | |
| MODELING | |
| LOC CODE 4799 | 25 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3919

Building Type: 60-111

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: 2

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as
57-III

Reflective Coating

gone at 57-117

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

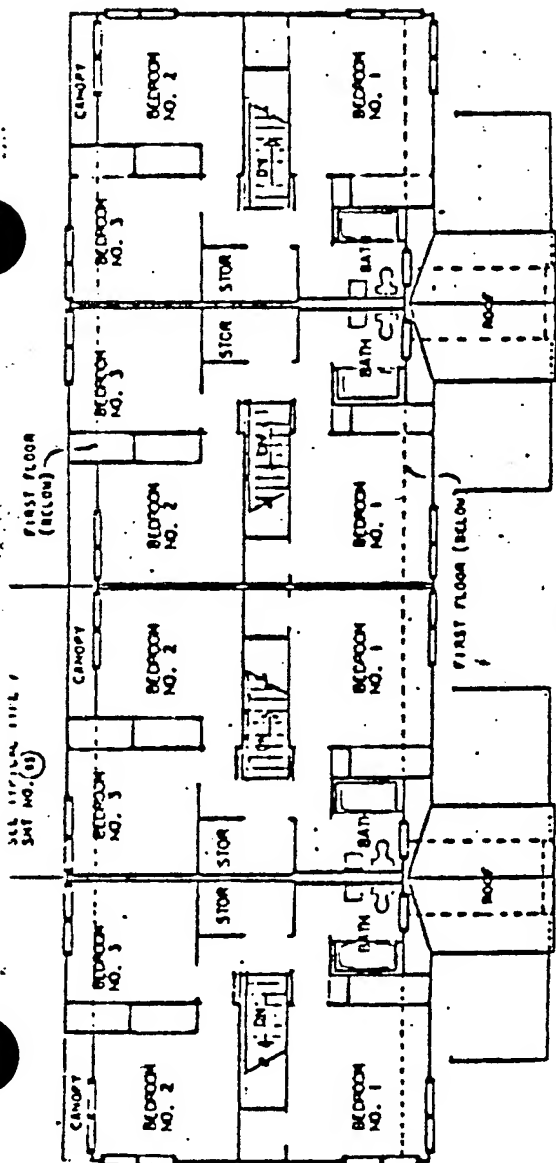
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

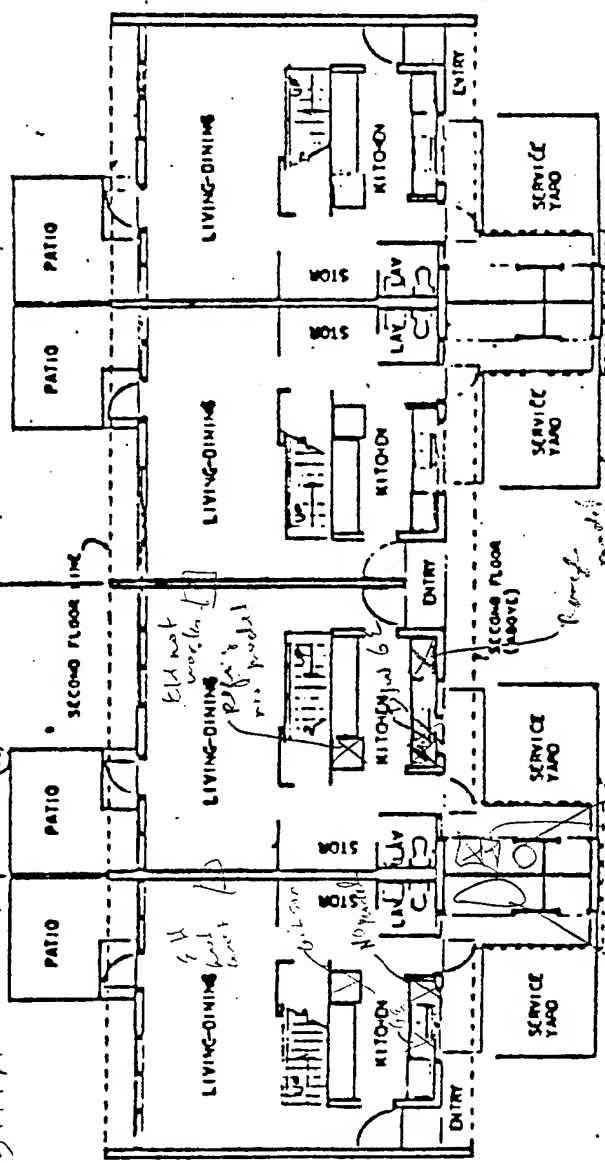
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|---------|-------------|------------|
| Kit Sk | 2 1/10s | 104 F | Doing Wash |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



319A
 FIRST FLOOR PLAN
 SCALE 1/8" = 1'-0"

319B
 SEE TYPICAL TYPE 7
 SHT NO. (6)



319B
 SECOND FLOOR PLAN
 SCALE 1/8" = 1'-0"

Handwritten notes on the right side of the second floor plan, including "old not working", "plaster", "new model", "fence", "service yard", and "entrance".

Type 60-III

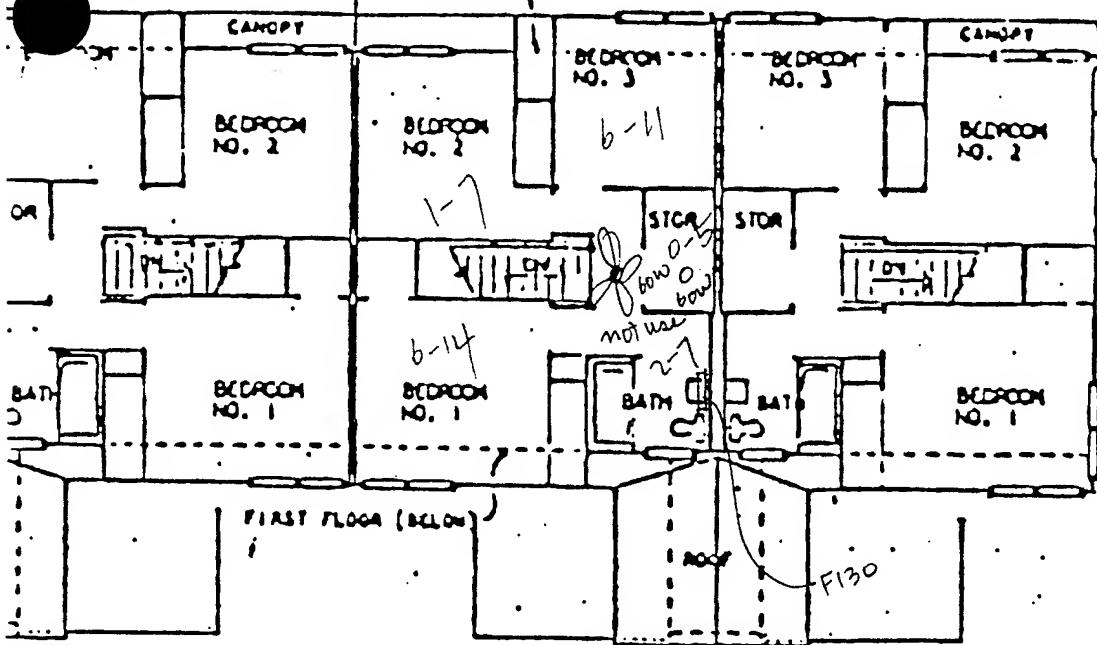
BUILDING NUMBERS

| | |
|----------|--|
| AREA K-1 | 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000 |
| AREA T | 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4242, 4243, 4244, 4245, 4246, 4247, 4248, 4249, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 4265, 4266, 4267, 4268, 4269, 4270, 4271, 4272, 4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4294, 4295, 4296, 4297, 4298, 4299, 4300 |
| AREA V | 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400 |

SEE SITE PLAN SHEETS 60-III
 FOR LOCATION

| | |
|---|------------------|
| REVISIONS | |
| 1 | REVISIONS |
| FAMILY HOUSING | |
| BLOOMINGDALE DATA FOR AIR CONDITIONING PROJECTS | |
| CLIMATE HOUSING SCHEDULE 1960 AREAS C-1, C-2, C-3 | |
| FIRST AND SECOND FLOOR PLANS TYPE 1 | |
| SCHEDULE 1960 AREAS | |
| U. S. ARMY DIVISION, DIVISION, PACIFIC OCEAN | |
| COMPS OF ENGINEERING | |
| HONOLULU, HAWAII | |
| LOC. CODE 1479 | 79 11 07 341, 10 |

FIRST FLOOR
(below)



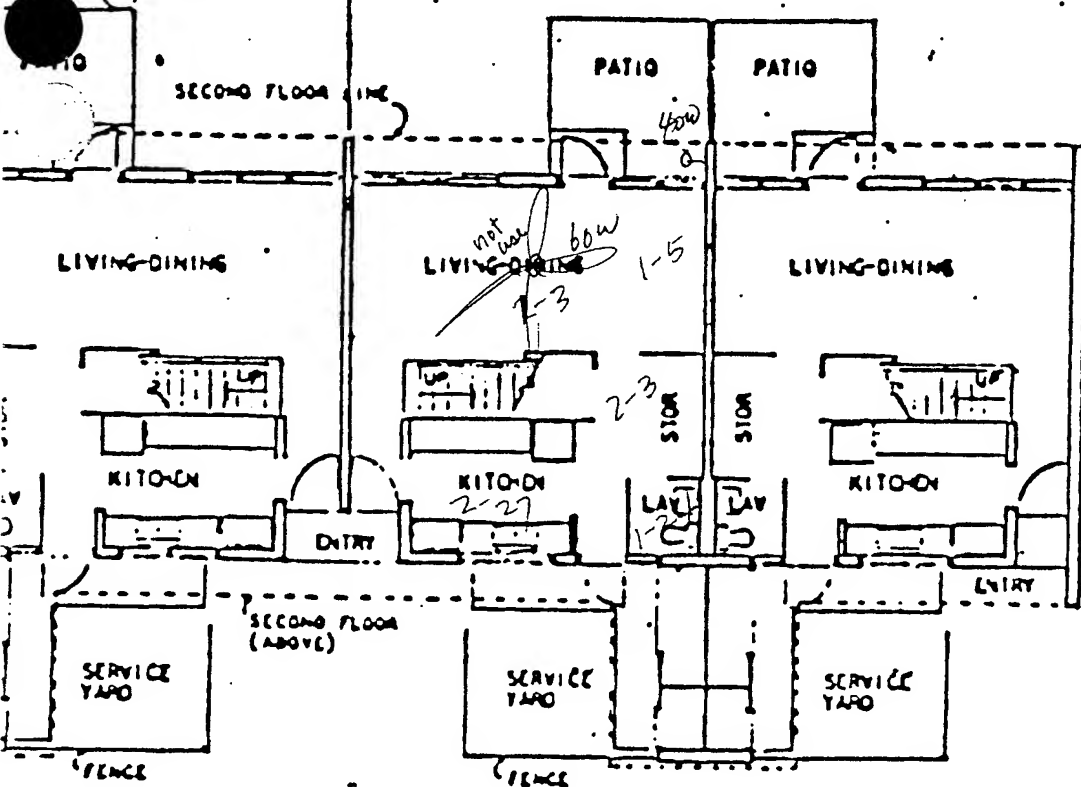
Type 60-I

BUILDING NUMBERS

| | | |
|----------|-------|------|
| AREA K-1 | 3918. | 391 |
| | 3925. | 392 |
| | 3930. | 393 |
| | 3940. | 394 |
| AREA T | 4254. | 425 |
| | 4246. | 424 |
| AREA V | 1304. | 1305 |
| | 1311. | 1312 |
| | 1317. | 1319 |
| | 1325. | 1328 |
| | 1333. | 1334 |
| | 1348. | 1349 |
| | 1351. | 1352 |
| | 1362. | 1364 |
| | 1372. | |

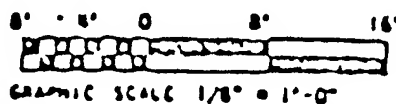
SEE SITE FOR
LOCATION

LARGE SCALE PLAN
SEE TYPICAL TYPE 7
SHF NO. (11)



TYPE 60-II

3918 ABCD
3919 ~~A~~BCD
3920 ABCD
3921 ABCD



GRAPHIC SCALE 1/8" = 1'-0"

| | |
|--------------------------|----|
| REVISED | |
| FAMILY NAME | |
| BUDGETARY DATA FOR AIR C | |
| CAPMART HOUSING SOC | |
| FIRST AND SECOND FLO | |
| SCHOOL/FIELD DAMAGES | |
| U. S. ARMY ENGINEER, O | |
| CORPS OF E | |
| HOUSING | |
| LOC. CODE 8279 | 25 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3919

Building Type: Co - 111

Apartment: B

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: all

No. of Occupants: 4

Average No. of Showers/Day: 5

Average No. of Laundry Loads/Week: 9

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 60-11

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

same as 60-II

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

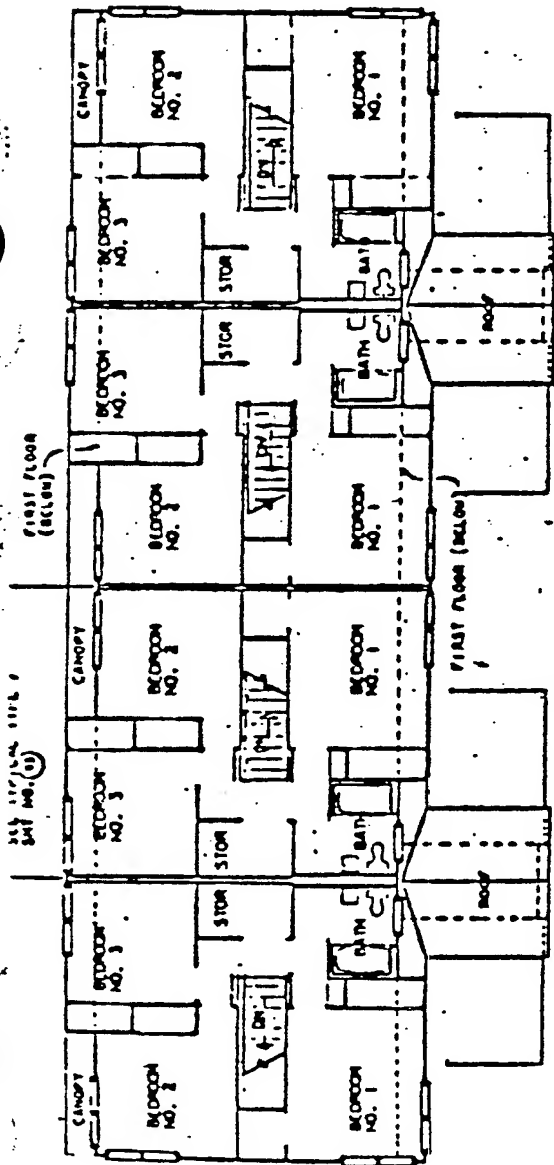
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

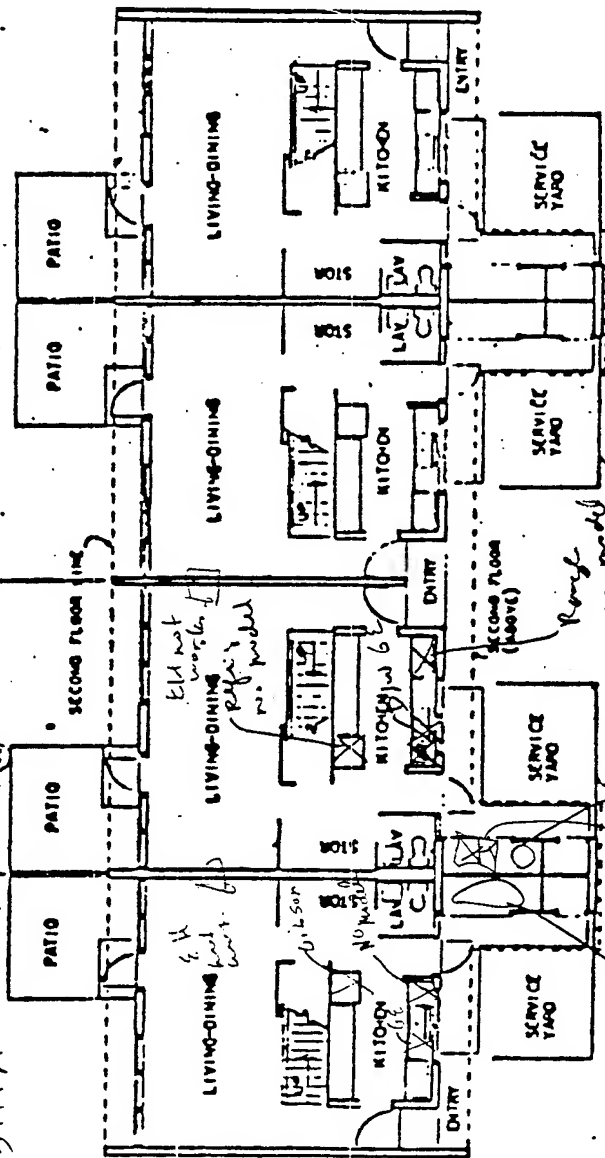
3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------|-----------|-------------|---------------------|
| Kit Sk | 1.5 l/10s | 122F | |
| Shwr (cp) | 1 l/10s | 120F | Shower Massage Head |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



3919 A
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

3919 B
LARGE SCALE PLAN
SEE TYPICAL TYPE 3
SHEET NO. (3)



3919 C
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

Handwritten notes and signatures: "3919 C", "3919 D", "3919 E", "3919 F", "3919 G", "3919 H", "3919 I", "3919 J", "3919 K", "3919 L", "3919 M", "3919 N", "3919 O", "3919 P", "3919 Q", "3919 R", "3919 S", "3919 T", "3919 U", "3919 V", "3919 W", "3919 X", "3919 Y", "3919 Z", "3919 AA", "3919 AB", "3919 AC", "3919 AD", "3919 AE", "3919 AF", "3919 AG", "3919 AH", "3919 AI", "3919 AJ", "3919 AK", "3919 AL", "3919 AM", "3919 AN", "3919 AO", "3919 AP", "3919 AQ", "3919 AR", "3919 AS", "3919 AT", "3919 AU", "3919 AV", "3919 AW", "3919 AX", "3919 AY", "3919 AZ", "3919 BA", "3919 BB", "3919 BC", "3919 BD", "3919 BE", "3919 BF", "3919 BG", "3919 BH", "3919 BI", "3919 BJ", "3919 BK", "3919 BL", "3919 BM", "3919 BN", "3919 BO", "3919 BP", "3919 BQ", "3919 BR", "3919 BS", "3919 BT", "3919 BU", "3919 BV", "3919 BW", "3919 BX", "3919 BY", "3919 BZ", "3919 CA", "3919 CB", "3919 CC", "3919 CD", "3919 CE", "3919 CF", "3919 CG", "3919 CH", "3919 CI", "3919 CJ", "3919 CK", "3919 CL", "3919 CM", "3919 CN", "3919 CO", "3919 CP", "3919 CQ", "3919 CR", "3919 CS", "3919 CT", "3919 CU", "3919 CV", "3919 CW", "3919 CX", "3919 CY", "3919 CZ", "3919 DA", "3919 DB", "3919 DC", "3919 DD", "3919 DE", "3919 DF", "3919 DG", "3919 DH", "3919 DI", "3919 DJ", "3919 DK", "3919 DL", "3919 DM", "3919 DN", "3919 DO", "3919 DP", "3919 DQ", "3919 DR", "3919 DS", "3919 DT", "3919 DU", "3919 DV", "3919 DW", "3919 DX", "3919 DY", "3919 DZ", "3919 EA", "3919 EB", "3919 EC", "3919 ED", "3919 EE", "3919 EF", "3919 EG", "3919 EH", "3919 EI", "3919 EJ", "3919 EK", "3919 EL", "3919 EM", "3919 EN", "3919 EO", "3919 EP", "3919 EQ", "3919 ER", "3919 ES", "3919 ET", "3919 EU", "3919 EV", "3919 EW", "3919 EX", "3919 EY", "3919 EZ", "3919 FA", "3919 FB", "3919 FC", "3919 FD", "3919 FE", "3919 FF", "3919 FG", "3919 FH", "3919 FI", "3919 FJ", "3919 FK", "3919 FL", "3919 FM", "3919 FN", "3919 FO", "3919 FP", "3919 FQ", "3919 FR", "3919 FS", "3919 FT", "3919 FU", "3919 FV", "3919 FW", "3919 FX", "3919 FY", "3919 FZ", "3919 GA", "3919 GB", "3919 GC", "3919 GD", "3919 GE", "3919 GF", "3919 GG", "3919 GH", "3919 GI", "3919 GJ", "3919 GK", "3919 GL", "3919 GM", "3919 GN", "3919 GO", "3919 GP", "3919 GQ", "3919 GR", "3919 GS", "3919 GT", "3919 GU", "3919 GV", "3919 GW", "3919 GX", "3919 GY", "3919 GZ", "3919 HA", "3919 HB", "3919 HC", "3919 HD", "3919 HE", "3919 HF", "3919 HG", "3919 HH", "3919 HI", "3919 HJ", "3919 HK", "3919 HL", "3919 HM", "3919 HN", "3919 HO", "3919 HP", "3919 HQ", "3919 HR", "3919 HS", "3919 HT", "3919 HU", "3919 HV", "3919 HW", "3919 HX", "3919 HY", "3919 HZ", "3919 IA", "3919 IB", "3919 IC", "3919 ID", "3919 IE", "3919 IF", "3919 IG", "3919 IH", "3919 II", "3919 IJ", "3919 IK", "3919 IL", "3919 IM", "3919 IN", "3919 IO", "3919 IP", "3919 IQ", "3919 IR", "3919 IS", "3919 IT", "3919 IU", "3919 IV", "3919 IW", "3919 IX", "3919 IY", "3919 IZ", "3919 JA", "3919 JB", "3919 JC", "3919 JD", "3919 JE", "3919 JF", "3919 JG", "3919 JH", "3919 JI", "3919 JJ", "3919 JK", "3919 JL", "3919 JM", "3919 JN", 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"3919 QO", "3919 QP", "3919 QQ", "3919 QR", "3919 QS", "3919 QT", "3919 QU", "3919 QV", "3919 QW", "3919 QX", "3919 QY", "3919 QZ", "3919 RA", "3919 RB", "3919 RC", "3919 RD", "3919 RE", "3919 RF", "3919 RG", "3919 RH", "3919 RI", "3919 RJ", "3919 RK", "3919 RL", "3919 RM", "3919 RN", "3919 RO", "3919 RP", "3919 RQ", "3919 RR", "3919 RS", "3919 RT", "3919 RU", "3919 RV", "3919 RW", "3919 RX", "3919 RY", "3919 RZ", "3919 SA", "3919 SB", "3919 SC", "3919 SD", "3919 SE", "3919 SF", "3919 SG", "3919 SH", "3919 SI", "3919 SJ", "3919 SK", "3919 SL", "3919 SM", "3919 SN", "3919 SO", "3919 SP", "3919 SQ", "3919 SR", "3919 SS", "3919 ST", "3919 SU", "3919 SV", "3919 SW", "3919 SX", "3919 SY", "3919 SZ", "3919 TA", "3919 TB", "3919 TC", "3919 TD", "3919 TE", "3919 TF", "3919 TG", "3919 TH", "3919 TI", "3919 TJ", "3919 TK", "3919 TL", "3919 TM", "3919 TN", "3919 TO", "3919 TP", "3919 TQ", "3919 TR", "3919 TS", "3919 TT", "3919 TU", "3919 TV", "3919 TW", "3919 TX", "3919 TY", "3919 TZ", "3919 UA", "3919 UB", "3919 UC", "3919 UD", "3919 UE", "3919 UF", "3919 UG", "3919 UH", "3919 UI", "3919 UJ", "3919 UK", "3919 UL", "3919 UM", "3919 UN", "3919 UO", "3919 UP", "3919 UQ", "3919 UR", "3919 US", "3919 UT", "3919 UY", "3919 UZ", "3919 VA", "3919 VB", "3919 VC", "3919 VD", "3919 VE", "3919 VF", "3919 VG", "3919 VH", "3919 VI", "3919 VJ", "3919 VK", "3919 VL", "3919 VM", "3919 VN", "3919 VO", "3919 VP", "3919 VQ", "3919 VR", "3919 VS", "3919 VT", "3919 VU", "3919 VV", "3919 VW", "3919 VX", "3919 VY", "3919 VZ", "3919 WA", "3919 WB", "3919 WC", "3919 WD", "3919 WE", "3919 WF", "3919 WG", "3919 WH", "3919 WI", "3919 WJ", "3919 WK", "3919 WL", "3919 WM", "3919 WN", "3919 WO", "3919 WP", "3919 WQ", "3919 WR", "3919 WS", "3919 WT", "3919 WU", "3919 WV", "3919 WW", "3919 WX", "3919 WY", "3919 WZ", "3919 XA", "3919 XB", "3919 XC", "3919 XD", "3919 XE", "3919 XF", "3919 XG", "3919 XH", "3919 XI", "3919 XJ", "3919 XK", "3919 XL", "3919 XM", "3919 XN", "3919 XO", "3919 XP", "3919 XQ", "3919 XR", 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Type 60-III

BUILDING NUMBERS

| | |
|----------|--|
| AREA K-1 | 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000 |
| AREA T | 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4242, 4243, 4244, 4245, 4246, 4247, 4248, 4249, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 4265, 4266, 4267, 4268, 4269, 4270, 4271, 4272, 4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4294, 4295, 4296, 4297, 4298, 4299, 4300 |
| AREA V | 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400 |

SEE SITE PLAN SHEETS 60-III FOR LOCATION

| | |
|---|--|
| REVISIONS | |
| FAMILY HOUSING | |
| BUDGETARY DATA FOR AIR CONDITIONING EFFECTS | |
| CAPITAL HOUSING SCHEMATIC 1960 AREAS C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-13, C-14, C-15, C-16, C-17, C-18, C-19, C-20, C-21, C-22, C-23, C-24, C-25, C-26, C-27, C-28, C-29, C-30, C-31, C-32, C-33, C-34, C-35, C-36, C-37, C-38, C-39, C-40, C-41, C-42, C-43, C-44, C-45, C-46, C-47, C-48, C-49, C-50, C-51, C-52, C-53, C-54, C-55, C-56, C-57, C-58, C-59, C-60, C-61, C-62, C-63, C-64, C-65, C-66, C-67, C-68, C-69, C-70, C-71, C-72, C-73, C-74, C-75, C-76, C-77, C-78, C-79, C-80, C-81, C-82, C-83, C-84, C-85, C-86, C-87, C-88, C-89, C-90, C-91, C-92, C-93, C-94, C-95, C-96, C-97, C-98, C-99, C-100 | |
| 10-07-1960 BUREAU | |
| U. S. ARMY ENGINEERING DIVISION, PACIFIC OCEAN DISTRICT, HONOLULU | |
| 100, 000, 000 | |



GRAPHIC SCALE 1/8" = 1'-0"

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3920

Building Type: 60-111

Apartment: A

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 2

Average No. of Showers/Day: 3

Average No. of Laundry Loads/Week: 7

Average No. of Times Dishwasher Used/Day: Not used

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as
~~57-151~~
60-11

same as Co-II

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

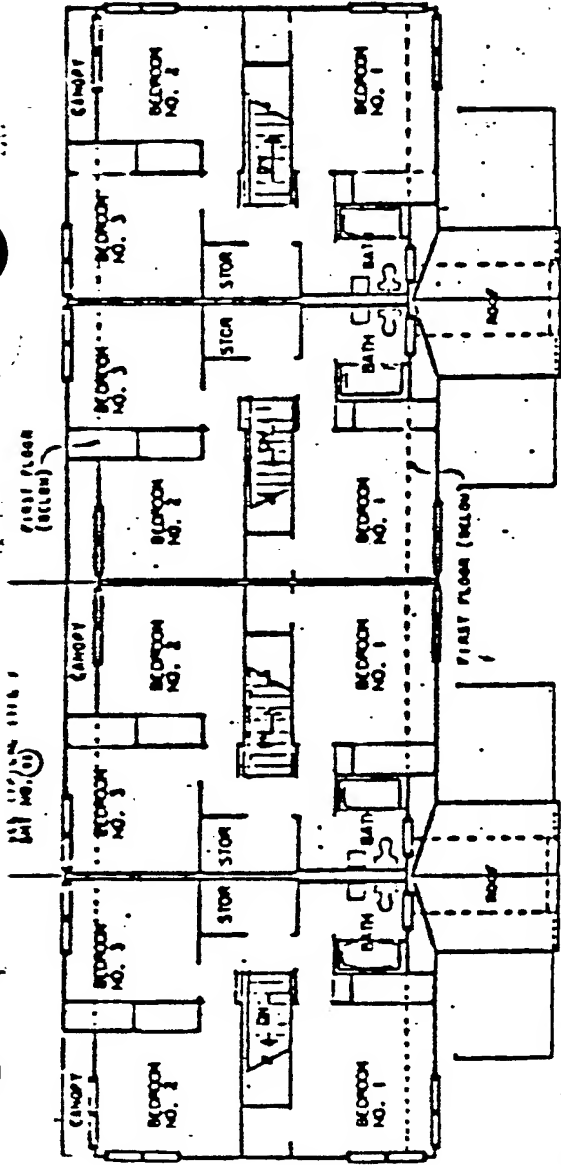
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

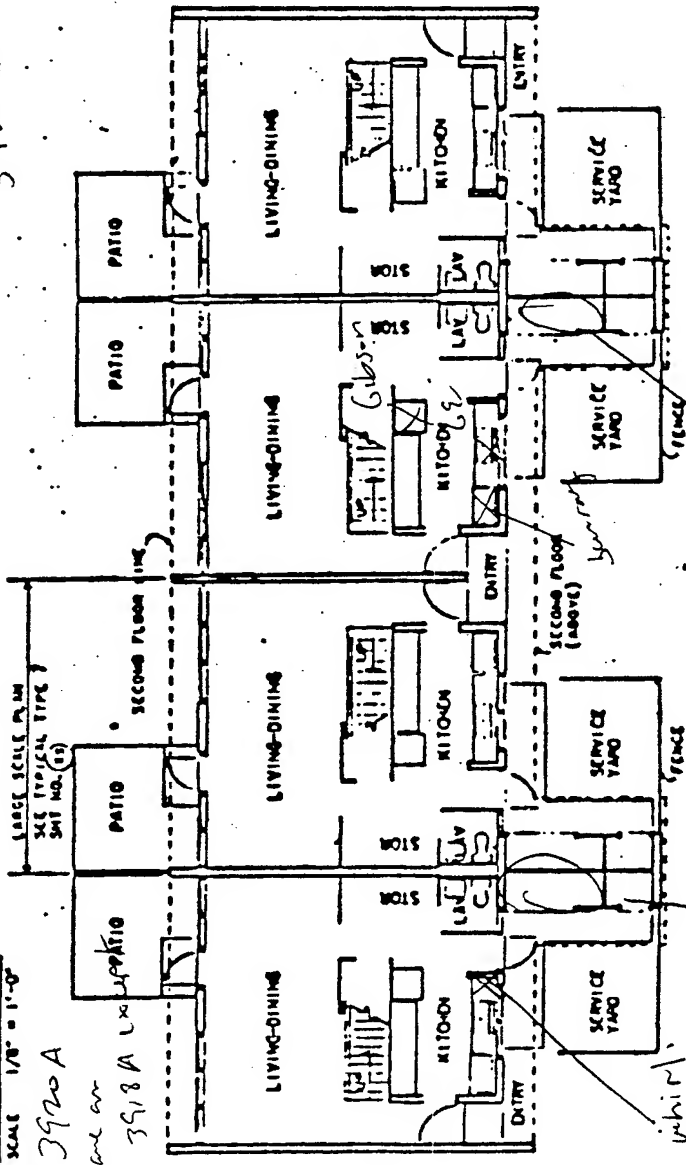
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|----------|--------|-------------|---------|
| K. if SK | 12/105 | 118 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



3920 A
Scale on 39,8 A
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



3920 B
Scale on 39,8 A
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

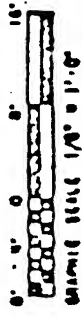
Type 60-III

BUILDING NUMBERS

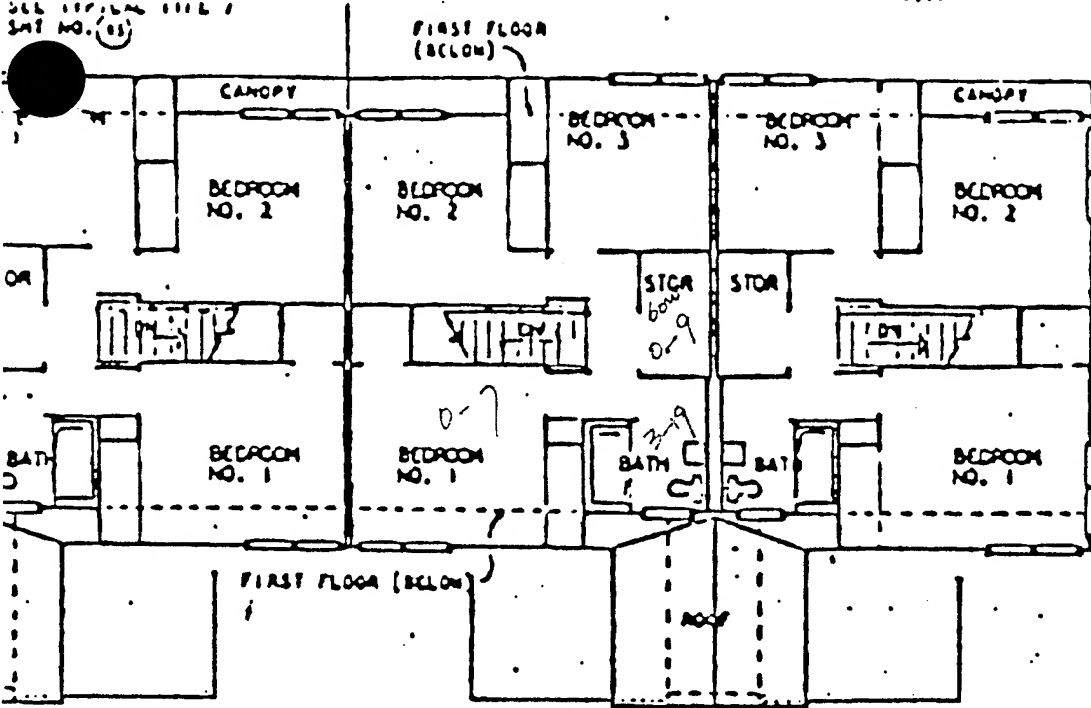
| | |
|----------|--|
| AREA K-1 | 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000 |
| AREA T | 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4242, 4243, 4244, 4245, 4246, 4247, 4248, 4249, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 4265, 4266, 4267, 4268, 4269, 4270, 4271, 4272, 4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4294, 4295, 4296, 4297, 4298, 4299, 4300 |
| AREA V | 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400 |

SEE SITE PLAN SHEETS 3920-3929 FOR LOCATION

| REVISIONS | |
|-----------|--|
| 1 | FAMILY HOUSING |
| 2 | BLOCKY DATA FOR AIR CONDITIONING PROJECTS |
| 3 | CAPACITY HOUSING SCHEDULES 1950 MEAS 6-1.1.1.1 |
| 4 | FIRST AND SECOND FLOOR PLANS |
| 5 | TYPE J |
| 6 | NO. 100 FIELD BARRACKS |
| 7 | NAVY, HAWAII |
| 8 | U. S. ARMY ENGINEER, DIVISION, PACIFIC OCEAN |
| 9 | COMPS OF ENGINEERS |
| 10 | HONOLULU, HAWAII |
| 11 | LOC. CODE 1499 |
| 12 | NO. 11 OF 12 |
| 13 | DATE |



SEE TYPICAL TYPE 1
SHEET NO. (85)



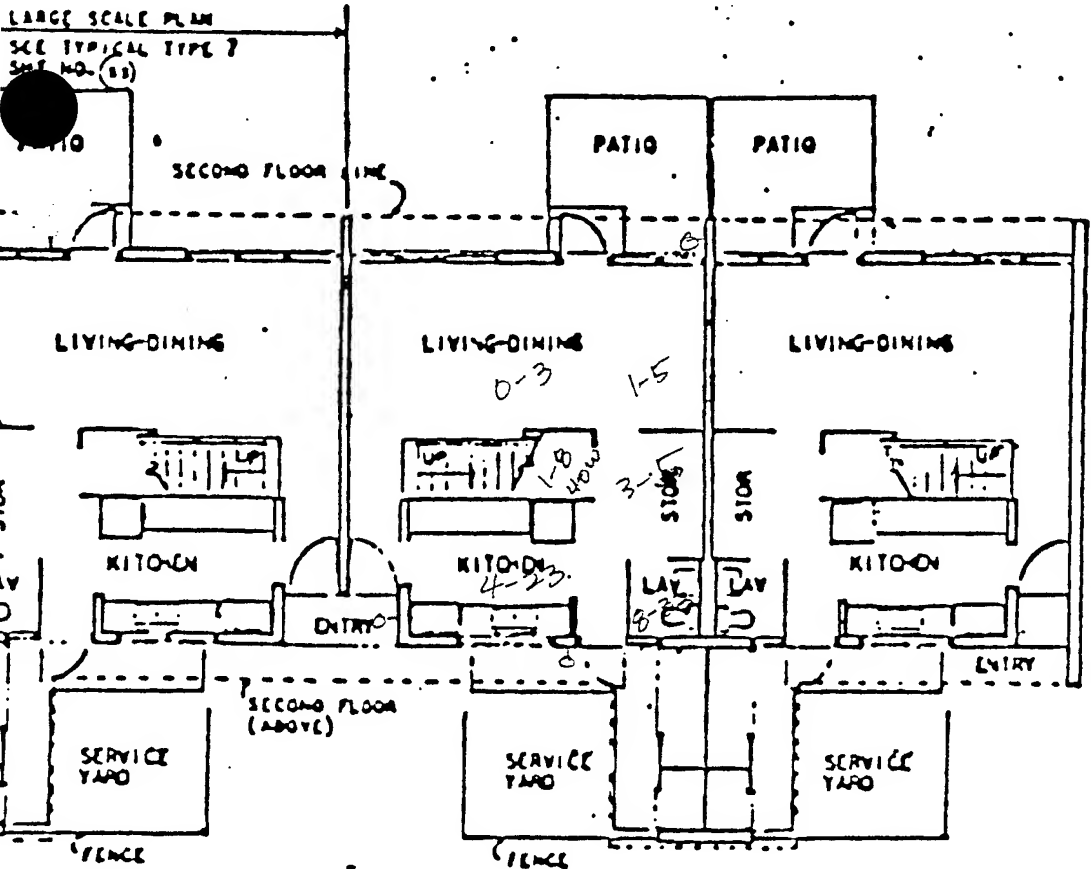
Type 60-I

BUILDING NUMBERS

| | | |
|----------|------------|------------|
| AREA K-1 | 3918, 3919 | 3920, 3921 |
| | 3922, 3923 | 3924, 3925 |
| | 3926, 3927 | 3928, 3929 |
| | 3930, 3931 | 3932, 3933 |
| AREA T | 4234, 4235 | 4236, 4237 |
| | 4238, 4239 | 4240, 4241 |
| AREA V | 1308, 1309 | 1310, 1311 |
| | 1312, 1313 | 1314, 1315 |
| | 1316, 1317 | 1318, 1319 |
| | 1320, 1321 | 1322, 1323 |
| | 1324, 1325 | 1326, 1327 |
| | 1328, 1329 | 1330, 1331 |
| | 1332, 1333 | 1334, 1335 |
| | 1336, 1337 | 1338, 1339 |
| | 1340, 1341 | 1342, 1343 |
| | 1344, 1345 | 1346, 1347 |
| | 1348, 1349 | 1350, 1351 |
| | 1352, 1353 | 1354, 1355 |
| | 1356, 1357 | 1358, 1359 |
| | 1360, 1361 | 1362, 1363 |
| | 1364, 1365 | 1366, 1367 |
| | 1368, 1369 | 1370, 1371 |
| | 1372, 1373 | 1374, 1375 |

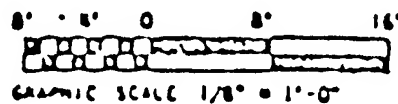
SEE SITE PLAN FOR LOCATION

LARGE SCALE PLAN
SEE TYPICAL TYPE 7
SHEET NO. (85)



TYPE 60-II

3918 ABCD
3919 ABCD
3920 ABCD
3921 ABCD



| REVISION |
|--|
| FAMILY & BUDGETARY DATA FOR AIR |
| EXPANDED HOUSING FOR FIRST AND SECOND FLOORS |
| SCOTT & BARNES |
| U. S. ARMY ENGINEER, CORPS OF ENGINEERS |
| LOC. CODE 8299 |
| 75 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3920

Building Type: 60-111

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 60

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Same as
60-II

Window Yes No
Tinted _____
Reflective Coating _____

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

same as 60-II

- a. Is System Supported from (check one):
_____ Central Plant _____ One System per Building
_____ Several Small Systems per Building
_____ Individual EWH/Unit
- b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F
- c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

- d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____
- e. Is Hot Water Circulated? _____
1) Condition of circulator _____
2) Circulator capacity _____
3) Is aquastat provided? _____
4) Aquastat temperature setting _____
5) Mfg/Model _____
6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
b. Areas Served _____
c. Manufacturer and Model _____
d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
e. Type Heaters & Quantities:
1) Storage _____
2) Instantaneous _____
3) Semi-Instantaneous _____
f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

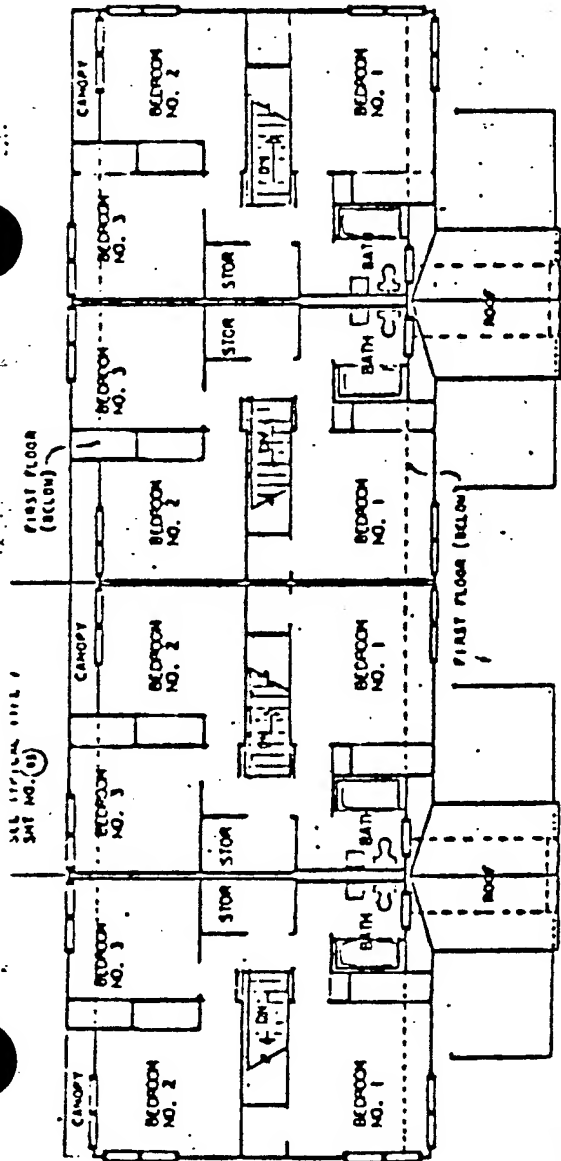
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

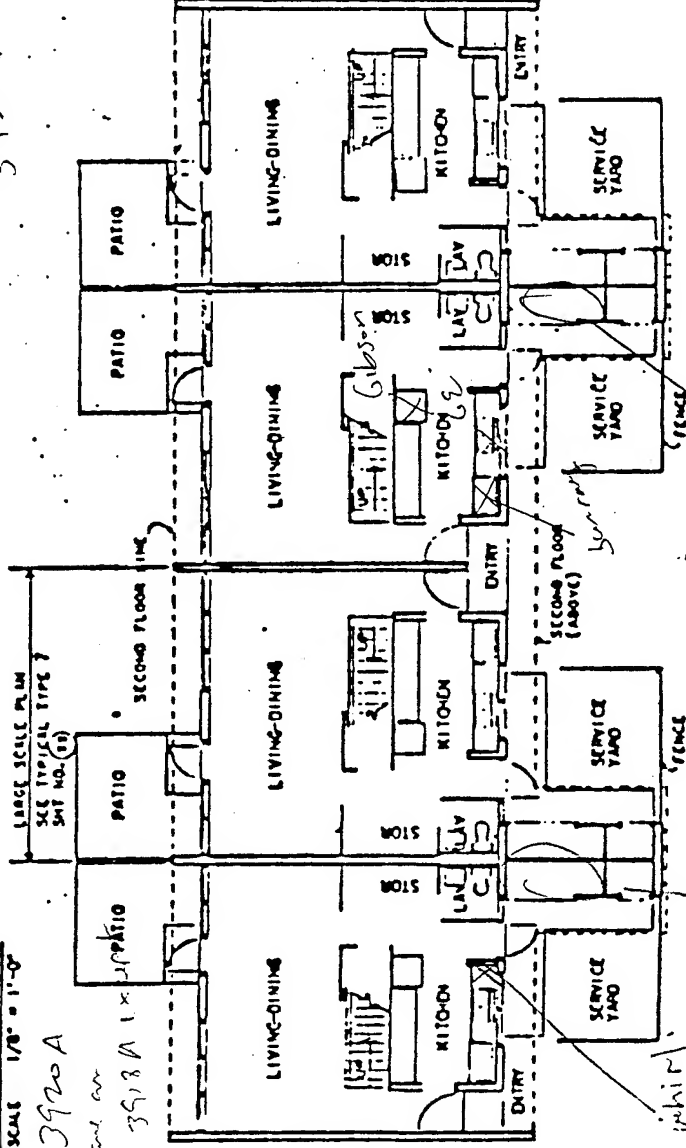
- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|---------|-------------|---------|
| Kitchen | 1.5 gpm | 138 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



3920 A
3920 A 1 x 1'0"



3920 A
3920 A 1 x 1'0"

Type 60-III

BUILDING NUMBERS

| | | | | | |
|----------|-------|-------|-------|-------|------|
| AREA K-1 | 3918, | 3919, | 3920, | 3921, | 3923 |
| | 3925, | 3926, | 3927, | 3928, | 3929 |
| | 3930, | 3931, | 3932, | 3933, | 3934 |
| | 3940, | 3942, | 3943, | 3944, | 3945 |
| AREA T | 4234, | 4235, | 4236, | 4237, | 4238 |
| | 4239, | 4240, | 4241, | 4242, | 4243 |
| AREA V | 1309, | 1310, | 1311, | 1312, | 1313 |
| | 1314, | 1315, | 1316, | 1317, | 1318 |
| | 1319, | 1320, | 1321, | 1322, | 1323 |
| | 1324, | 1325, | 1326, | 1327, | 1328 |
| | 1329, | 1330, | 1331, | 1332, | 1333 |
| | 1334, | 1335, | 1336, | 1337, | 1338 |
| | 1339, | 1340, | 1341, | 1342, | 1343 |
| | 1344, | 1345, | 1346, | 1347, | 1348 |
| | 1349, | 1350, | 1351, | 1352, | 1353 |
| | 1354, | 1355, | 1356, | 1357, | 1358 |
| | 1359, | 1360, | 1361, | 1362, | 1363 |
| | 1364, | 1365, | 1366, | 1367, | 1368 |
| | 1369, | 1370, | 1371, | 1372, | 1373 |

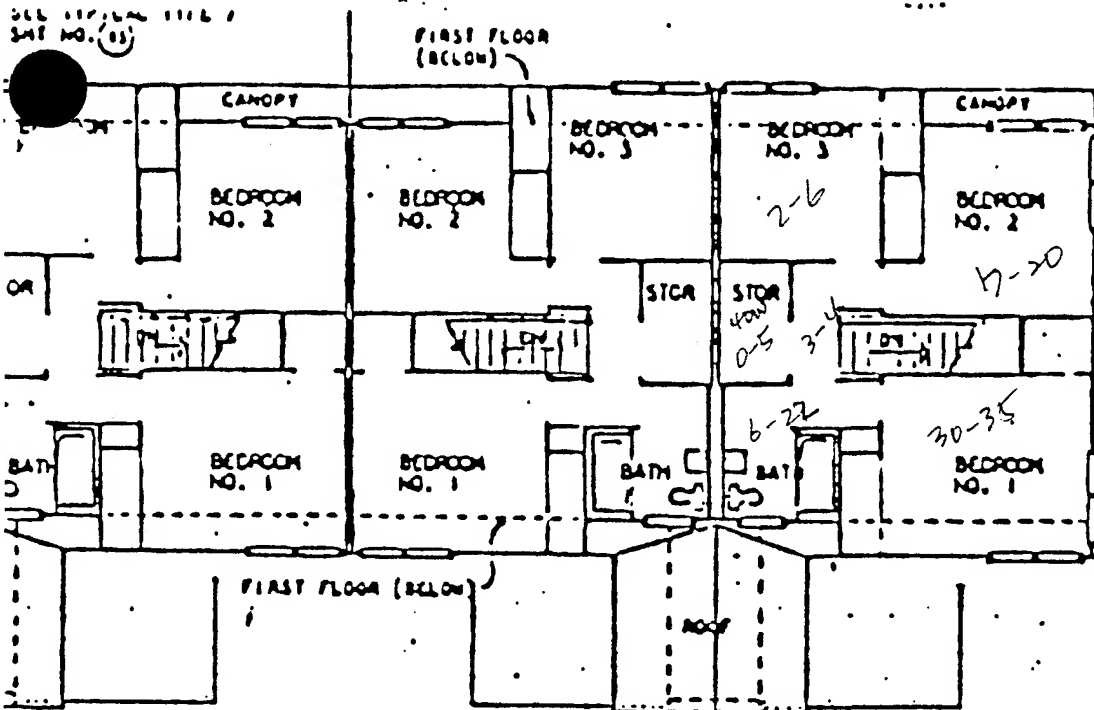
SEE SHEET PLAN SHEETS 20, 21, 22 FOR LOCATION

REVISIONS

| | | | | | |
|--|----|----|----|----|----|
| FAMILY HOUSING | | | | | |
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | | | | | |
| CAPABILITY HOUSING SCHEDULE 1950 AREAS 5-1, 7, 8 | | | | | |
| FIRST AND SECOND FLOOR PLANS | | | | | |
| SCHEDULE 1950 | | | | | |
| U. S. ARMY ENGINEER, DIVISION, PACIFIC OCEAN | | | | | |
| COMPS OF ENGINEERS | | | | | |
| MOORE, HARRIS | | | | | |
| LOC. CODE 449 | | | | | |
| 20 | 21 | 22 | 23 | 24 | 25 |

GRAPHIC SCALE 1/8" = 1'-0"

SEE TYPICAL TYPE 7
SMT NO. (85)



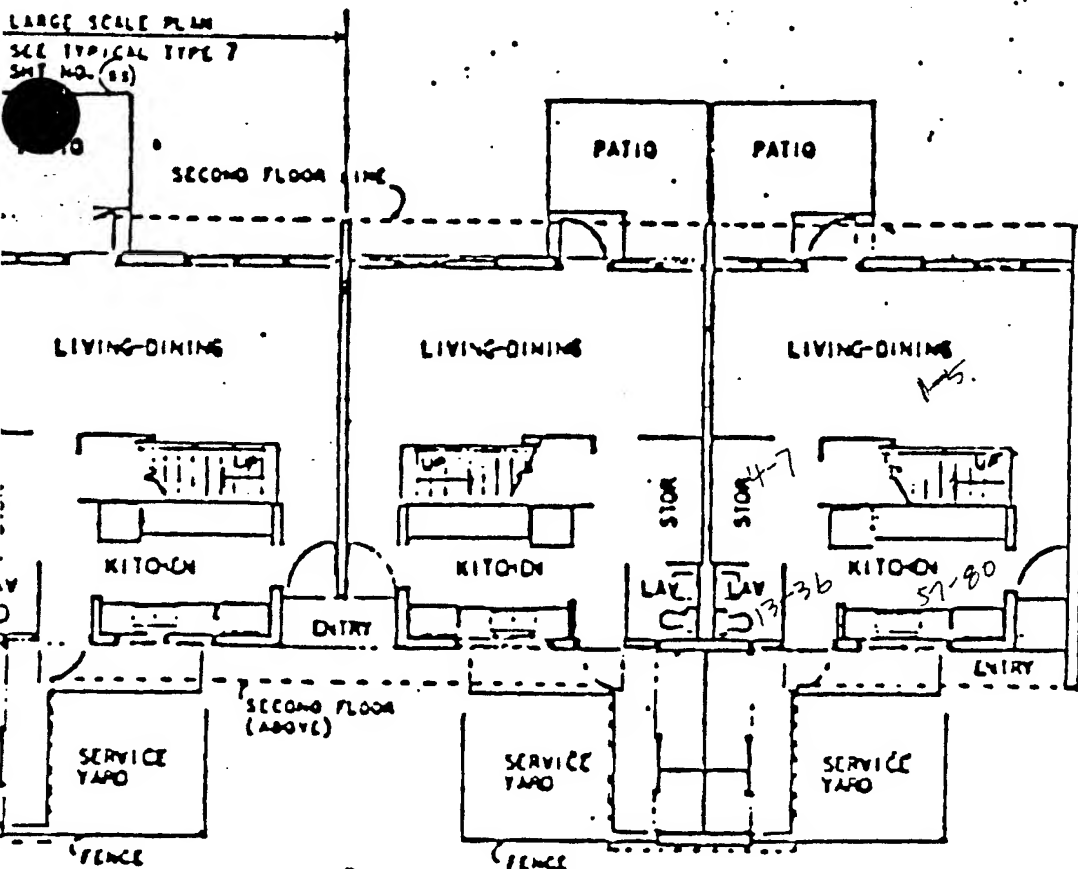
Type 60-I

BUILDING NUMBERS

| | | |
|----------|------|------|
| AREA K-I | 3918 | 3919 |
| | 3923 | 3924 |
| | 3930 | 3931 |
| | 3940 | 3941 |
| AREA T | 4234 | 4235 |
| | 4246 | 4247 |
| AREA V | 1304 | 1305 |
| | 1311 | 1312 |
| | 1317 | 1318 |
| | 1325 | 1326 |
| | 1333 | 1334 |
| | 1348 | 1349 |
| | 1351 | 1352 |
| | 1362 | 1363 |
| | 1372 | |

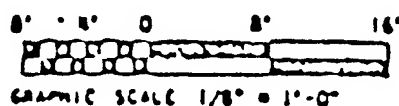
SEE SITE PLAN
FOR LOCATION

LARGE SCALE PLAN
SEE TYPICAL TYPE 7
SMT NO. (85)



TYPE 60-II

- 3918 ABCD
- 3919 ABCD
- 3920 ABCD
- 3921 ABCD



| REVIS | |
|--------------------------|----|
| FAMILY M | |
| BUDGETARY DATA FOR AIR C | |
| CAPITAL HOUSING SOC | |
| FIRST AND SECOND FLO | |
| SCHWELB BARRACKS | |
| U. S. ARMY ENGINEER, DI | |
| CORPS OF E | |
| HOUSING | |
| LOC CODE 4798 | 75 |

Date: _____
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 3921

Building Type: 60-11

Apartment: D

No. Bedrooms: 3

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: _____

No. of Occupants: 4

Average No. of Showers/Day: 10

Average No. of Laundry Loads/Week: 9

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

*Same as
6. - II*

Window Yes No
Tinted / /
Reflective Coating

*same as
60-11*

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kit Sk | 22/105 | 117 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

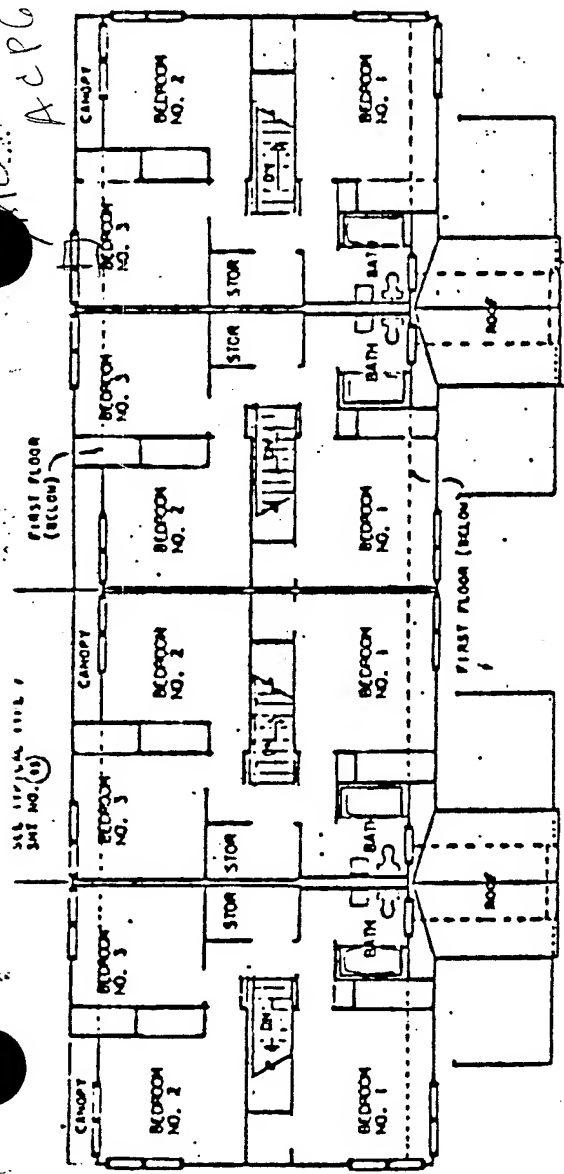
AC-Whip
A & P 602XP
6,000 BTU
EER 8.7

Type 60-III

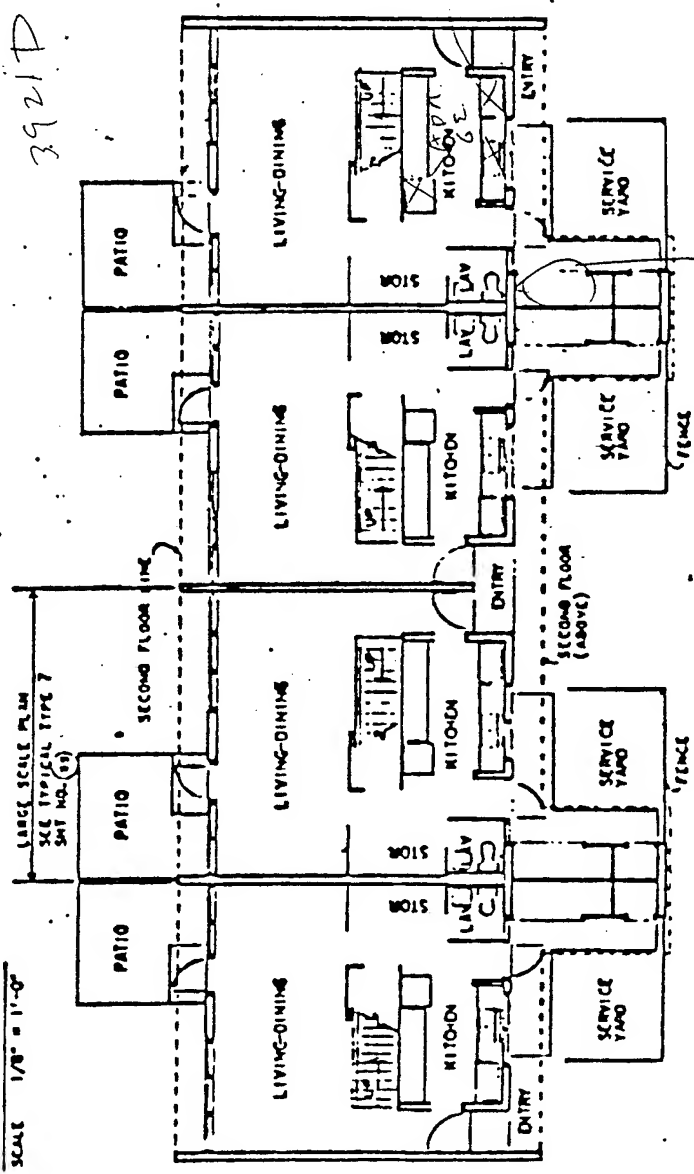
BUILDING NUMBERS

| | | | | | |
|----------|------|------|------|------|------|
| AREA K-1 | 3918 | 3917 | 3920 | 3921 | 3923 |
| | 3923 | 3926 | 3937 | 3938 | 3939 |
| | 3930 | 3931 | 3932 | 3937 | 3938 |
| | 3940 | 3942 | 3943 | 3949 | 3950 |
| AREA T | 4234 | 4236 | 4238 | 4242 | 4248 |
| | 4246 | 4248 | 4254 | | |
| AREA V | 1304 | 1305 | 1307 | 1308 | 1309 |
| | 1311 | 1312 | 1314 | 1315 | 1316 |
| | 1317 | 1319 | 1320 | 1322 | 1324 |
| | 1325 | 1326 | 1327 | 1329 | 1332 |
| | 1333 | 1334 | 1336 | 1337 | 1342 |
| | 1348 | 1349 | 1348 | 1348 | 1349 |
| | 1351 | 1352 | 1354 | 1354 | 1360 |
| | 1362 | 1364 | 1364 | 1364 | 1370 |
| | 1372 | | | | |

SEE SITE PLAN SHEETS FOR LOCATION



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

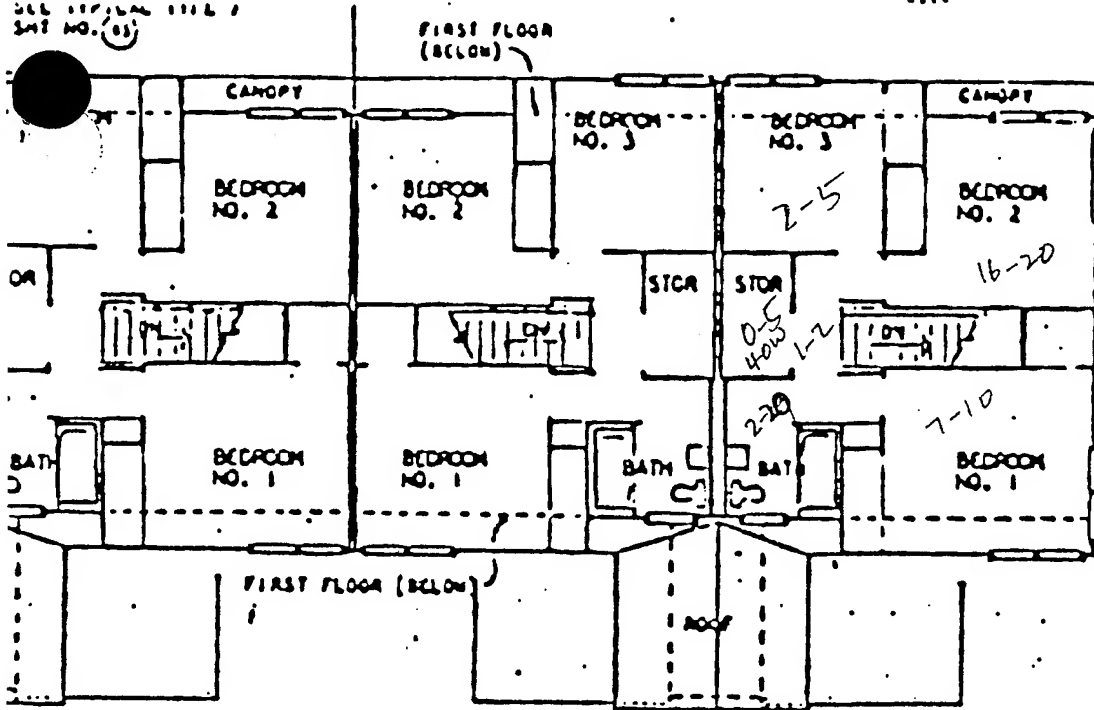


FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

GRAPHIC SCALE 1/8" = 1'-0"

| | | | | | |
|--|--|--|--|--|--|
| REVISIONS | | | | | |
| FAMILY HOUSING | | | | | |
| BUDGETARY DATA FOR AIR CONDITIONING PROJECTS | | | | | |
| CURRENT HOUSING SCHEMES 1960 AREAS E-I, V | | | | | |
| FIRST AND SECOND FLOOR PLANS | | | | | |
| NOVEMBER 1960 | | | | | |
| U. S. ARMY ENGINEER, DIVISION, PACIFIC OCEAN | | | | | |
| COMPS OF ENGINEERS | | | | | |
| NOVEMBER 1960 | | | | | |
| LOC. CODE 4499 | | | | | |
| IN 11 | | | | | |
| BY 11 | | | | | |
| 11 | | | | | |

SEE TYPICAL TYPE 1
SMT NO. (8)



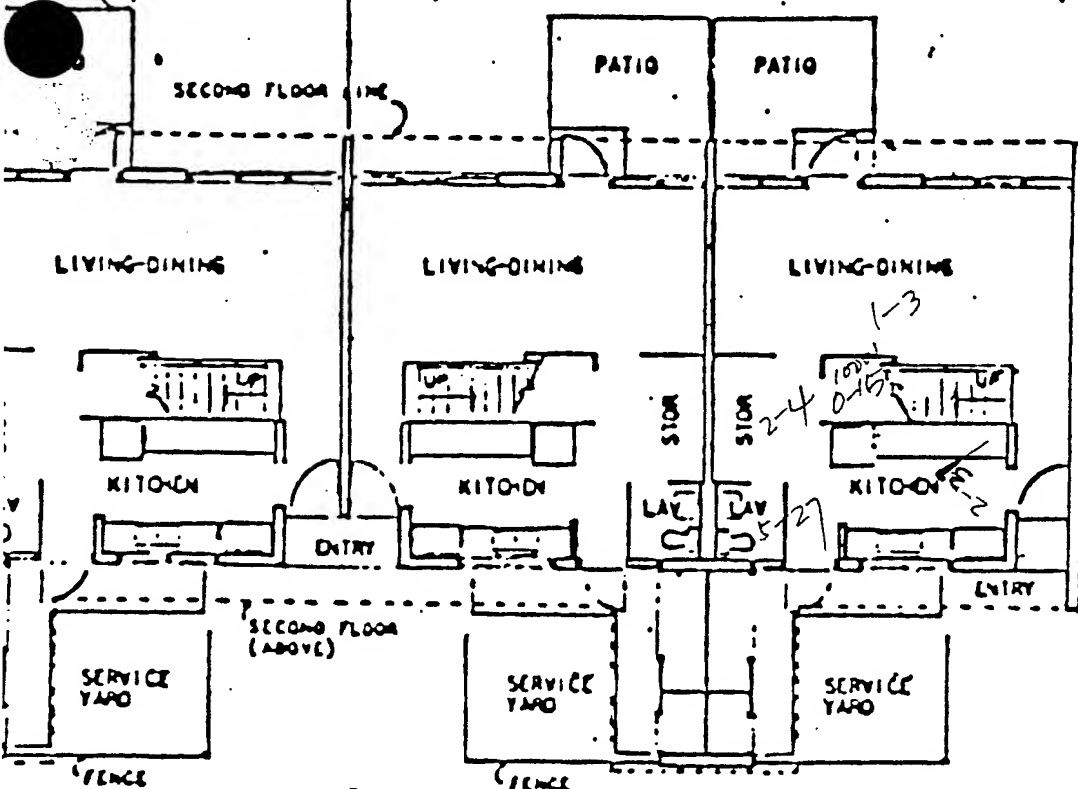
Type 60-I

BUILDING NUMBERS

| | | |
|----------|-------|------|
| AREA K-I | 3918, | 3919 |
| | 3923, | 3924 |
| | 3930, | 3931 |
| | 3940, | 3941 |
| AREA T | 4234, | 4235 |
| | 4246, | 4247 |
| AREA V | 1308, | 1309 |
| | 1311, | 1312 |
| | 1317, | 1318 |
| | 1323, | 1324 |
| | 1333, | 1334 |
| | 1348, | 1349 |
| | 1351, | 1352 |
| | 1362, | 1363 |
| | 1372 | |

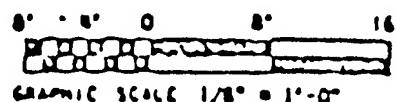
SEE SITE PLAN FOR LOCATION

LARGE SCALE PLAN
SEE TYPICAL TYPE 2
SMT NO. (8)



TYPE 60-II

- 3918 ABCD
- 3919 ABCD
- 3920 ABCD
- 3921 ABCD



| REVIS | |
|--------------------------|----|
| FAMILY M | |
| BUDGETARY DATA FOR AIR C | |
| EXPENDITURE HOLDING SMC | |
| FIRST AND SECOND FLOOR | |
| SCHOLARSHIP BARRACKS | |
| U. S. ARMY ENGINEER, OF | |
| CORPS OF E | |
| HONOLULU, | |
| LOC. CODE 8779 | 25 |

UNIT TYPE 71-I

Date: 1/26/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 81

Building Type: 71-I

Apartment: A

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 5 pm

No. of Occupants: 4

Average No. of Showers/Day: 4

Average No. of Laundry Loads/Week: 6

Average No. of Times Dishwasher Used/Day: every other day

Remarks: _____

2.0 ARCHITECTURAL

Construction

no crawl space under house

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Plaster Ceilg _____

Plaster Wall _____

Conc. Ext. Wall _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Roof _____

Asphalt Shingles _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted
Reflective Coating

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

a. Is System Supported from (check one):

Central Plant One System per Building
Several Small Systems per Building
Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: 120 °F
°F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: Not visible portion
Insulation Thickness:

e. Is Hot Water Circulated? No

- 1) Condition of circular
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location Laundry Room
- b. Areas Served Entire Unit
- c. Manufacturer and Model Hott Energy Heater Model 985-1
- d. Energy (Oil, Gas, Electric, Coal, Etc.) Gas
- e. Type Heaters & Quantities:
 - 1) Storage ✓
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity 1.6 gal.

- g. Heating Capacity 2250 W
h. Type Controls (Air, Steam, Electric) E
i. When Installed & Condition good
j. Heater Temperature Setting _____
k. Average Water Maintained Temperature _____
l. Temperature Differential (j) - (k) _____
m. Is Hot Water Supply Adequate _____
n. Insulation Thickness _____
o. Insulation Material _____
p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
2) Galons HW/Wash _____
3) Booster Heater Mfg/Mdl _____
4) Heating Source _____
5) Capacity _____
6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
2) Setting: Hot _____ Warm _____ Cold _____
3) Gallons HW/Wash _____
4) Electrical Data _____

see sketch

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|---------|--------|-------------|---------|
| Kitsk | 12/105 | 120 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

49'-9"

81A

28'-0"

ES

LA

L/D

BR 4

BR 3

BR 2

K

H

B 2

BR 1

B 1

F

light on
timer or
sensor

FIRST FLOOR

Bldg 81, 83, 85

AREA: SCH-A

ADDRESS: _____

4 2 0 B

UNIT TYPE: FY71/IX

SURV: _____

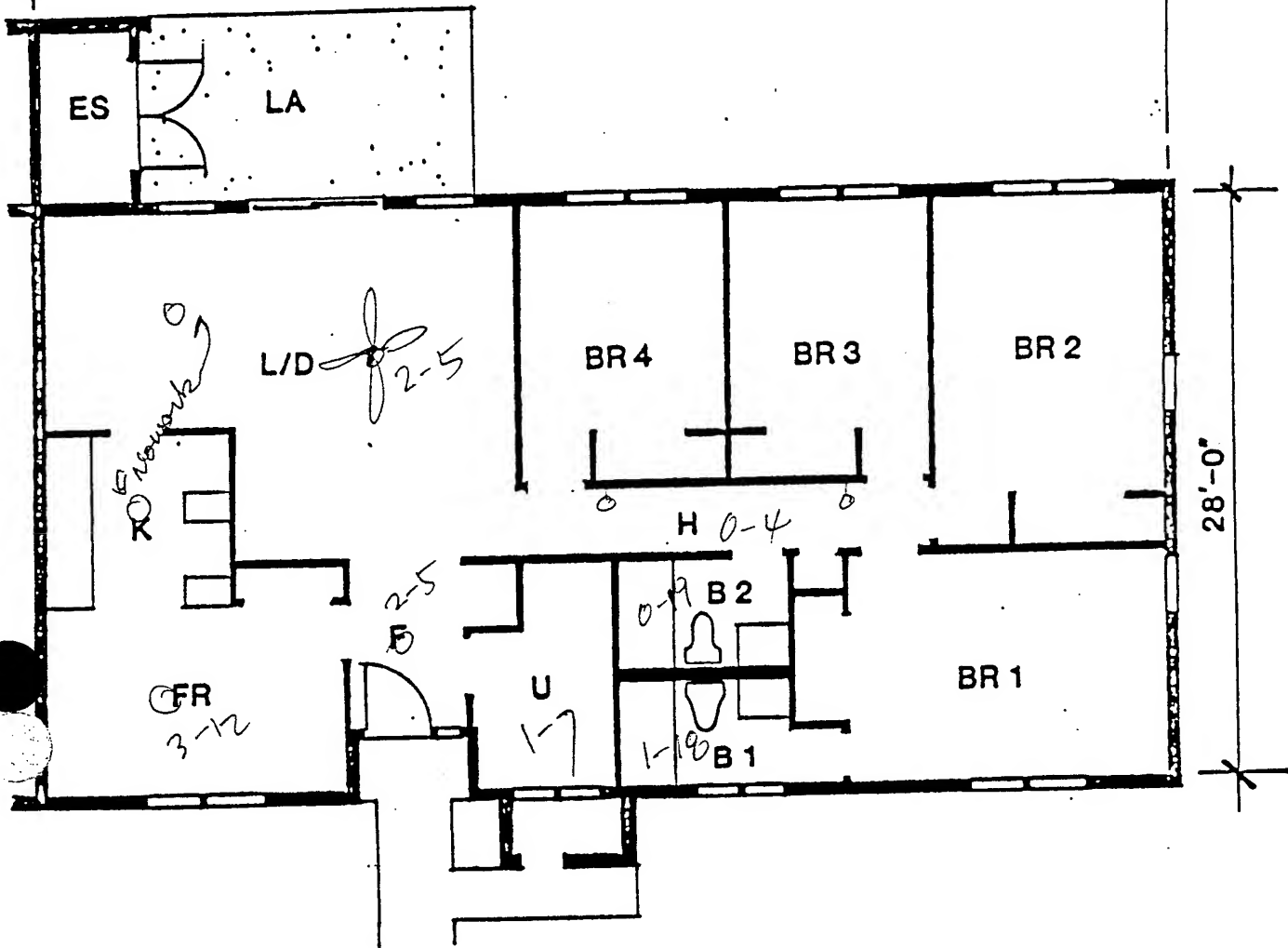
DATE: _____

TIME IN/OUT: _____

ARCHITECTS

Johnson
Reese
Larsen
Lowrey 50

49'-9"



FIRST FLOOR

81A
Bldg 81, 83, 85

AREA: SCH-A
ADDRESS: _____

UNIT TYPE: FY71/IX

1 1 1
4 2 0 B

SURV: _____
DATE: _____
TIME IN/OUT: _____

Architects

Johnson
Reese
Luerzen
Lowrey 50

Date: 1/26/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 51

Building Type: 71-I

Apartment: B

No. Bedrooms: 4

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: ALL DAY

No. of Occupants: 4

Average No. of Showers/Day: 1 per person or 2

Average No. of Laundry Loads/Week: 4

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Plaster Ceil'g

Plaster Wall

Conc. Ext. Wall

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Wood Roof

wt Asphalt Shingles

Inside Film _____

Total

U-Factor _____ Area

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

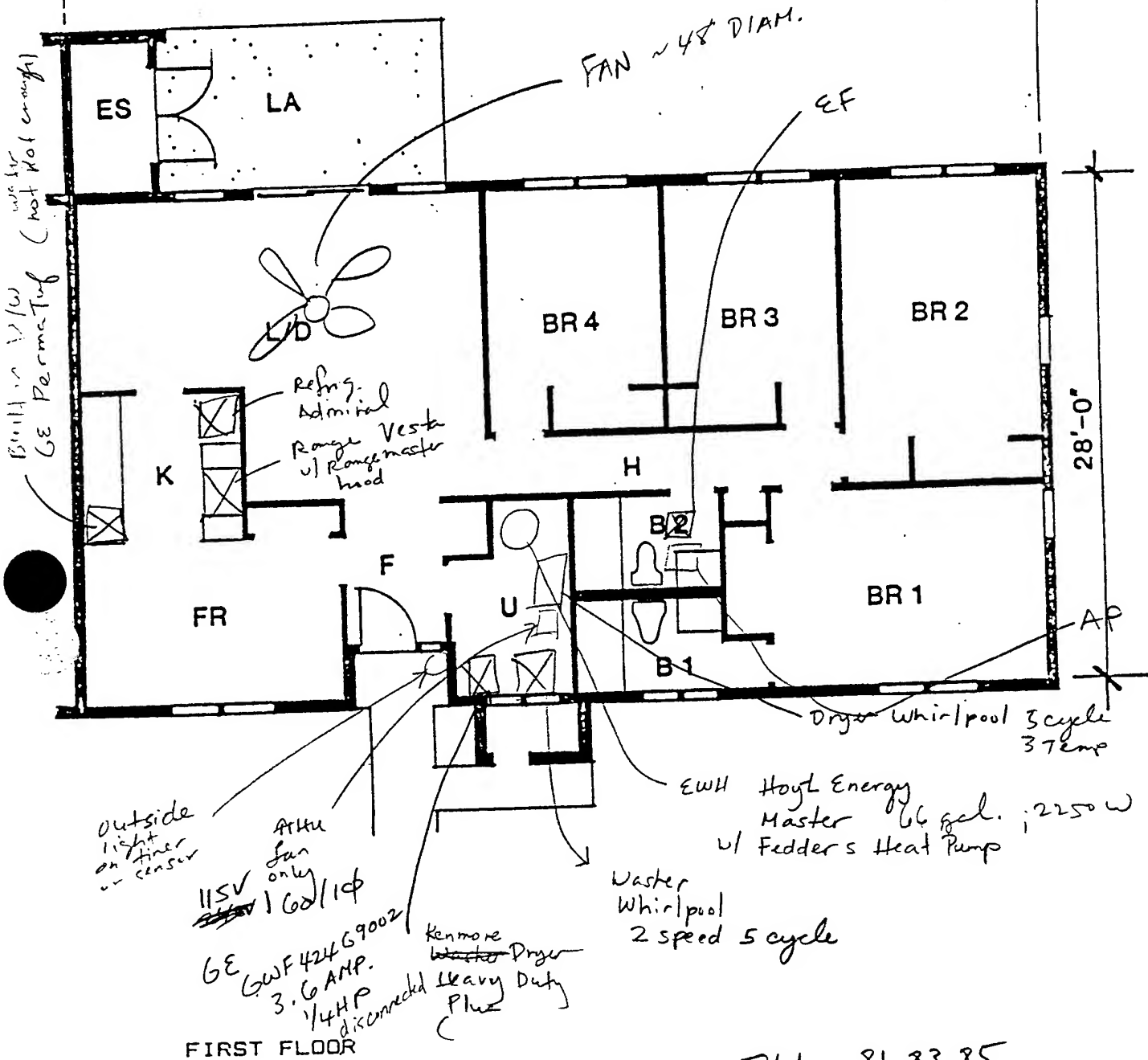
| Fixture | Flow | Water Temp. | Remarks |
|---------|-------|-------------|---------|
| Kit. | 22/10 | 118°F | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

For 11/17/75

81B

49'-9"

28'-0"



FIRST FLOOR

Bldg 81, 83, 85

AREA: SCH-A
ADDRESS: _____

UNIT TYPE: FY71/1X

4 2 0 B

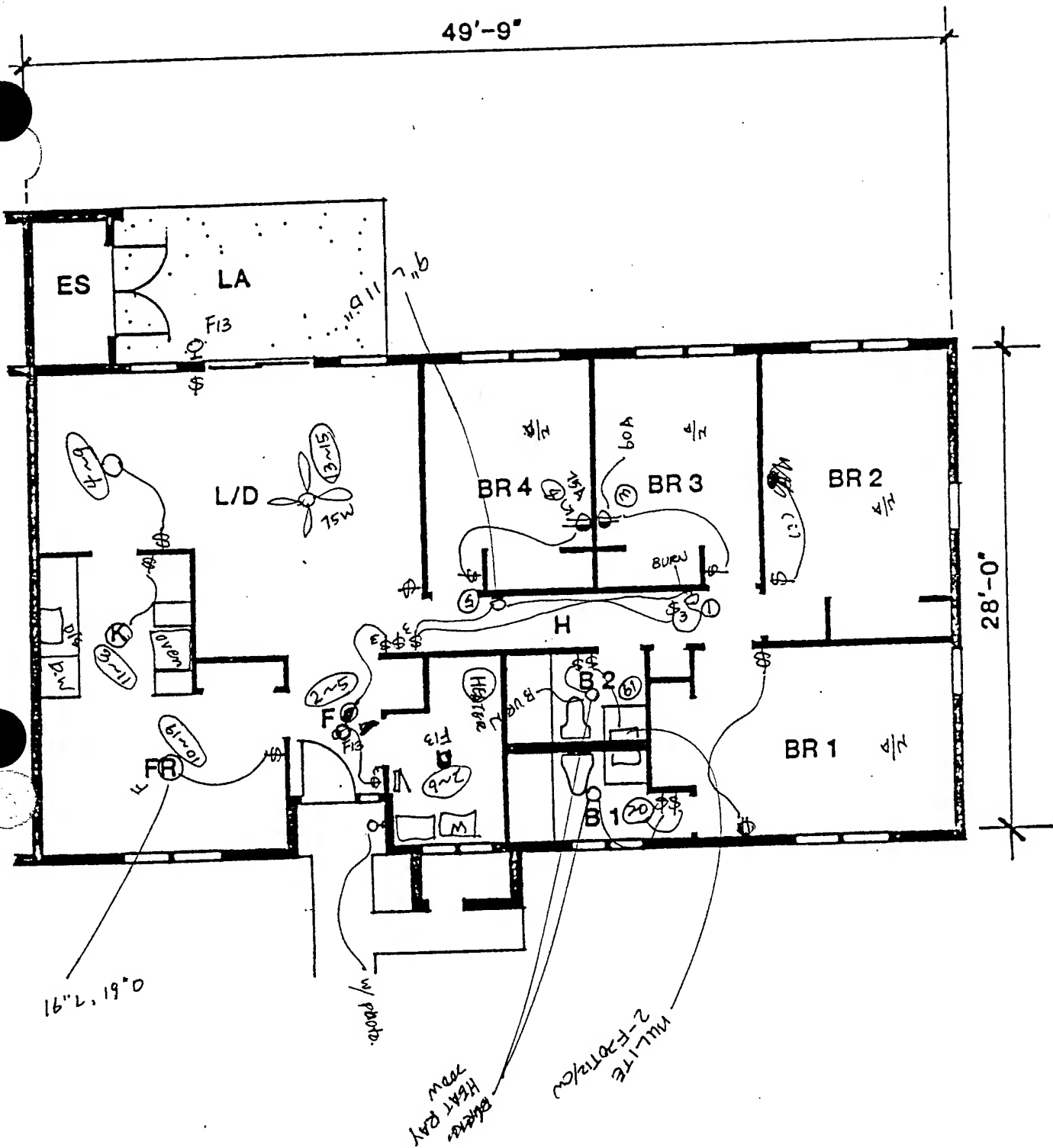
SURV: _____
DATE: _____
TIME IN/OUT: _____

Architects

Johnson
Reese
Luersen
Lowrey 50

F.F. 12/70

49'-9"



FIRST FLOOR

Bldg 81, 83, 85
81B

AREA: SCH-A

ADDRESS: _____

4 2 0 B

UNIT TYPE: FY71/IX

SURV: _____

DATE: _____

TIME IN/OUT: _____

Architect

Johnson
Reese
Luerzen
Lowrey 50

Date: 1/26/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 83
Building Type: 71-I
Apartment: A
No. Bedrooms: _____
Area: _____
Address: _____
Telephone No.: _____
Occupied Hours: after 3 pm
No. of Occupants: 4
Average No. of Showers/Day: 4
Average No. of Laundry Loads/Week: 5
Average No. of Times Dishwasher Used/Day: 1
Remarks: _____

2.0 ARCHITECTURAL

Same as 81

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted /
Reflective Coating /

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

same as 81

a. Is System Supported from (check one):

 Central Plant One System per Building
 Several Small Systems per Building
 Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: °F
 °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition:
Insulation Thickness:

e. Is Hot Water Circulated?

- 1) Condition of circulator
- 2) Circulator capacity
- 3) Is aquastat provided?
- 4) Aquastat temperature setting
- 5) Mfg/Model
- 6) Electrical Data

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location
- b. Areas Served
- c. Manufacturer and Model
- d. Energy (Oil, Gas, Electric, Coal, Etc.)
- e. Type Heaters & Quantities:
 - 1) Storage
 - 2) Instantaneous
 - 3) Semi-Instantaneous
- f. Heater Size and Storage Capacity

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-----------------|-------------|-------------|---------|
| Bathroom Shower | 1.5 gal/min | 112 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Date: 1/26/90
Prepared By: _____

ENERGY SAVINGS OPPORTUNITY SURVEY FORM

1.0 GENERAL INFORMATION

Building No.: 83

Building Type: 71-I

Apartment: B

No. Bedrooms: _____

Area: _____

Address: _____

Telephone No.: _____

Occupied Hours: from 2:30 pm

No. of Occupants: 6

Average No. of Showers/Day: 6

Average No. of Laundry Loads/Week: 12

Average No. of Times Dishwasher Used/Day: 1

Remarks: _____

2.0 ARCHITECTURAL

Same as 81

Construction

Wall _____ Color: D _____ H _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Roof (Incl. Clg.) Type: F _____ P _____
Color: D _____ M _____ L _____

Material _____ Thickness (In.) _____ R Value _____

Outside Film _____

Insulation _____

Inside Film _____

Total

U-Factor _____ Area

Window Yes No
Tinted _____
Reflective Coating _____

3.0 HOT WATER SYSTEM

3.1 DOMESTIC HOT WATER HEATING EQUIPMENT

Same as 81

a. Is System Supported from (check one):

_____ Central Plant _____ One System per Building
_____ Several Small Systems per Building
_____ Individual EWH/Unit

b. Domestic Hot Water Temperatures provided: _____ °F
_____ °F

c. Average Pipe Sizes of All HW Piping and Approximate Run of Each:

d. Is Piping System Insulated and Condition: _____
Insulation Thickness: _____

e. Is Hot Water Circulated? _____

- 1) Condition of circulator _____
- 2) Circulator capacity _____
- 3) Is aquastat provided? _____
- 4) Aquastat temperature setting _____
- 5) Mfg/Model _____
- 6) Electrical Data _____

3.2 DOMESTIC HOT WATER HEATING EQUIPMENT (If more than one location, list each one)

- a. Location _____
- b. Areas Served _____
- c. Manufacturer and Model _____
- d. Energy (Oil, Gas, Electric, Coal, Etc.) _____
- e. Type Heaters & Quantities:
 - 1) Storage _____
 - 2) Instantaneous _____
 - 3) Semi-Instantaneous _____
- f. Heater Size and Storage Capacity _____

- g. Heating Capacity _____
- h. Type Controls (Air, Steam, Electric) _____
- i. When Installed & Condition _____
- j. Heater Temperature Setting _____
- k. Average Water Maintained Temperature _____
- l. Temperature Differential (j) - (k) _____
- m. Is Hot Water Supply Adequate _____
- n. Insulation Thickness _____
- o. Insulation Material _____
- p. Timeclock and Hrs Set _____

3.3 HW USING APPLIANCES

a. Dishwasher

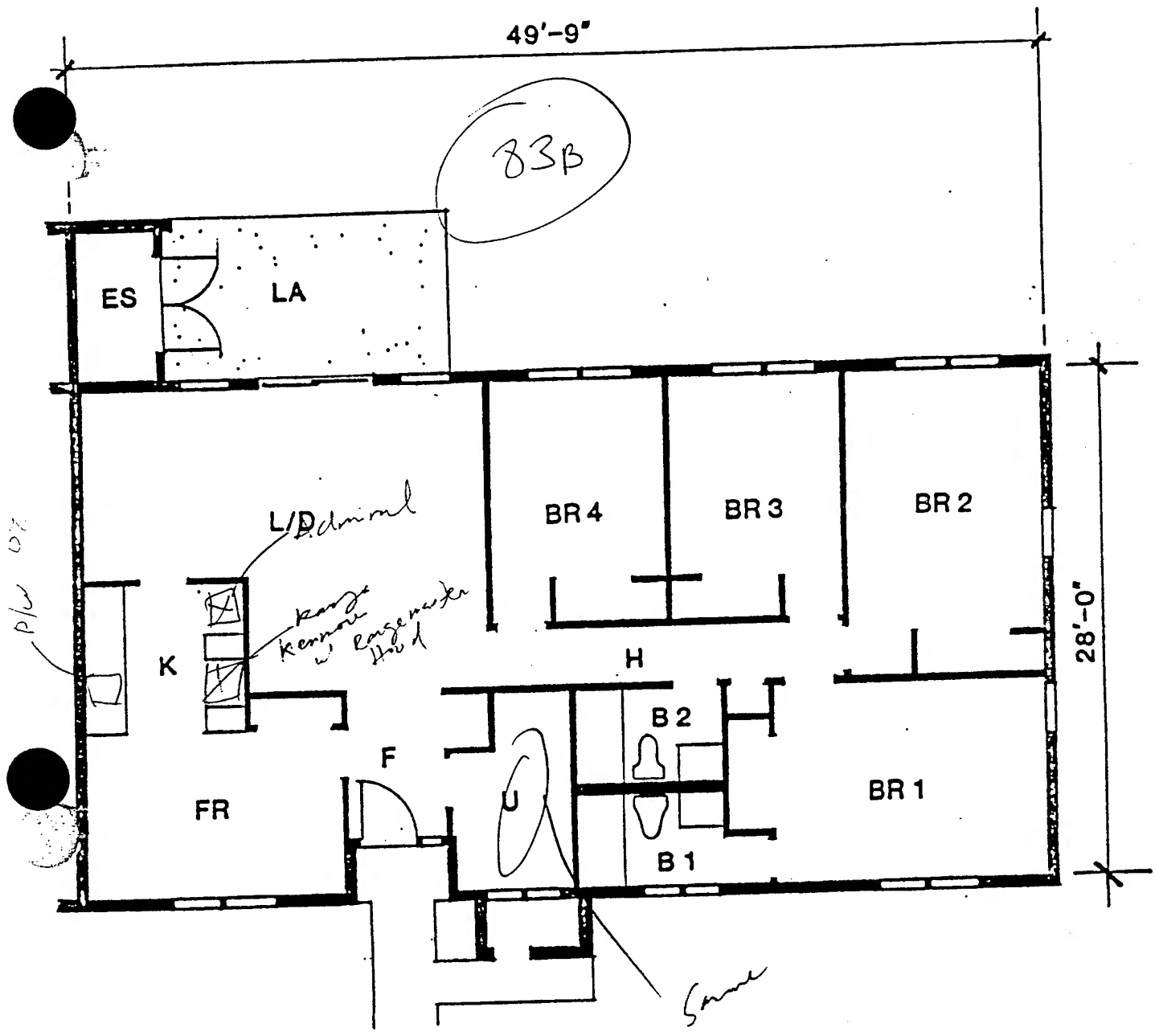
- 1) Mfg/Mdl _____
- 2) Galons HW/Wash _____
- 3) Booster Heater Mfg/Mdl _____
- 4) Heating Source _____
- 5) Capacity _____
- 6) Electrical Data _____

b. Clothes Washer

- 1) Mfg/Mdl _____
- 2) Setting: Hot _____ Warm _____ Cold _____
- 3) Gallons HW/Wash _____
- 4) Electrical Data _____

3.4 HOT WATER FIXTURES

| Fixture | Flow | Water Temp. | Remarks |
|-------------|----------|-------------|---------|
| Kit Sk. | 1.5l/1as | 116 | |
| Shower (B2) | 3l/10s | 112 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



FIRST FLOOR

Bldg 81, 83, 85

AREA: SCH-A
ADDRESS: _____

UNIT TYPE: FY71/IX

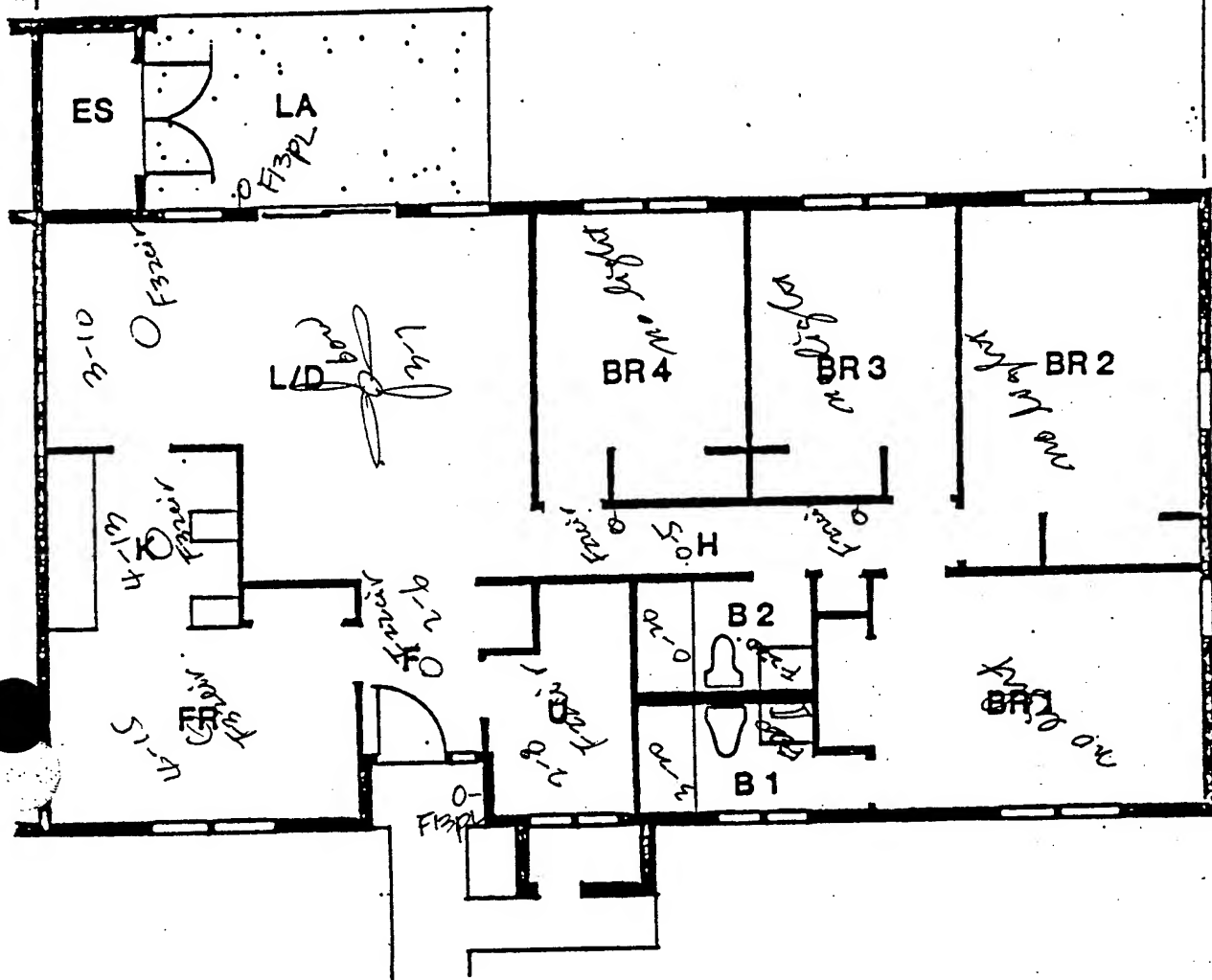
4 2 0 B

SURV: _____
DATE: _____
TIME IN/OUT: _____

Architects

Johnson
Reese
Luerzen
Lowrey 50

49'-9"



28'-0"

FIRST FLOOR

Bldg 81, 83, 85

AREA: SCH-A
ADDRESS: _____

4 2 0 B

UNIT TYPE: FY71/IX

SURV: _____
DATE: _____
TIMEIN/OUT: _____

Architects

Johnson
Reese
Luerzen
Lowrey 50